

New Trail

UNIVERSITY OF ALBERTA ALUMNI ASSOCIATION

SUMMER '86

DEVONIAN BOTANIC GARDEN

A Plan for
the Future

Biotechnology

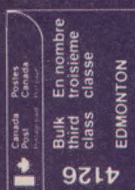
The Art
of Irene Klar

A Student
Remembers
Don Ross

Class Notes
and More



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Where in the world are they?



The Alumni Office does not have addresses for the following graduates of 1956 who will be celebrating the 30th anniversary of their graduation this year. The Alumni Office would like to be able to contact them to inform them of Homecoming and reunion plans. If you know the whereabouts of any of the following, please contact:

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Cameron, John
Chapman, Thomas H
Clark, Gerald R
Coleman, Herbert S
Cummings, John M
Diakur, Peter
Horton, Pamela
Maynard, Honora A
Mitchell, Thora F
Munro, James E
Myers, Edward H
Osler, William E
Philip, William
Ritchie, Allan B
Saunders, Patricia A
Smith, Hubert M
Steen, Norma F
Stephens, Sheila
Sweet, Linda A
Terfloth, John H
Watson, Lois P
Wright, Elizabeth E
Wyers, Herbert W
Sporleder, Maria

BComm

Smith, Gordon W
Steele, Charles R
Young, Gerald C

DDS

Chaikin, Osher
Seniw, Gerald

BEd

Anderson, Robert S
Barbyeaud, Marie A
Calder, William S
Cameron, Albert V
Chrumka, Millan
Collett, Laverne S
Couture, Robert
Crofton, Francis T
Curtin, Catherine
Danyschuk, Stella
Downs, M Winifrid W
Dunne, Mary Y
Gadzella, Bernadette
Gallant, Irene
Heath, Phillip G
Hickey, Bernadette
Holmes, Lillian C
Hurl, Margaret V
Kerans, Marilyn V
Klem, Steve Z
Lampron, Marie S
Leavitt, Lynne
Lessard, St Lina
Maguire, John F
Mah, Bessie J
Nelson, Chris G
O'Brien-Smith, Agnes E
O'Dwyer, Alice M
Powell, James C
Rhodes, Mary D
Sadelain, Olga A
Schaufele, Ronald A
Sharman, Vincent
Shaxon, Joan E
Skowronski, Michael
Slapak, Arthur C
Smith, William P

St Jeanne-Louise, Mary
Van Es, Cornelius P
Voth, David
Winter, Victor J
Wirtzfeld, Audrey E

Dip(Ed)

Barry, Robert F
Bozek, Leona E
Bromfield, Brace H
Brown, Jacob
Burton, Mary B
Carefoot, Muriel J
Carlson, Donna M
Dowdell, Sheila E
Edkins, Muriel K
Erickson, Isabel
Ewan, Ruby E
Farwell, Betty L
Fellner, Gertrude E
Gabl, Audrey
George, Irene M
Gray, John B
Gregory, Doreen M
Hansen, Dorothy M
Huber, Velma E
Jano, Mary A
Jenkins, Annabelle R
Kelley, Elaine M
Krasowski, Martha M
Lapp, Gloria S
Leitch, Helen A
MacDonald, Pauline M
MacKey, Avis L
McBeath, Marjorie
McGee, Ruth
Morrical, Louise V
Nickel, Evelyn
Orichowski, R Raslow
Reid, Margaret A
Rodnunsky, Albert E
Ross, Harold G
Rowe, Patricia L
Shelene, Dorothy J
Somerfeldt, Charlene
Sorensen, Nancy E
Stead, Doreen M
Steele, Margaret A
Stones, Peter
Treacy, Lillian J
Ulan, Alexandra
Venance, Lena
Whelan, Marie E
Wilson, Nancy R
Younie, Jean P
Zurek, Stanley
Lee, Margaret

BSc(Eng)

Bateman, Donald E
Compton, Bruce C
Cooper, Gordon A
DesLaurier, Octave E
Karas, Lester W
Michaud, Joseph E
Minchin, William H
Mingle, John R
Moruzi, George A
Pitt, Richard E
Schulz, William
Shepherd, Lloyd T
Skene, Christian
Sklar, John
Wilson, Charles E
Zaharichuk, Stephen
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MA

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Kemp, Edward W

MSc

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Miller, Sherwood R
Santiago, Antony
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BSc(HEc)

Copeland, Gladys L
Holm, Shirley A
Ulan, Christina S

LLB

Gareau, Richard N
Kerans, Roger P
Romanchuk, George
Ryan, Archie R

MD

Bresnahan, Boyd K
Henderson, Donald H
Steward, Glen G
Walker, F George

BSc(Nu)

Johnstone, Beatrice E

Dip(Nu)

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Coventry, Aris C
Demchuk, Grace A
Green, Joyce I
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Weinstein, Eileen M

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BPE

Hughes, Bernard
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BSc(Pharm)

Jones, Stella L
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Galenzoski, Irene I
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Hamel, Raymond W
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Quigley, D Gordon
Saarinen, Thomas F
Scott, Merle I
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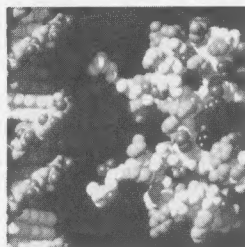
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New Trail

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A special report by the chairman of the department of genetics surveys the history of biotechnology and takes a realistic look at the ways it might be employed in the near future.

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21 The Next Decade and Beyond

On March 13 the University made public the results of an extensive planning effort aimed at setting the University's course for the future. A condensed version of the summary document is presented here.



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Cover

The University of Alberta Botanic Garden boasts a wide variety of plant life, some native to Alberta and many introduced species. Shown here is delicately-colored *Camparula* which is native to the Yukon.

The Editor

To Struggle and Emerge

THIS TIME OF YEAR, WHEN SPRING SEEMS finally to have banished winter and is doing its best to become summer, always puts me in a retrospective mood. It may be because my children have just finished celebrating birthdays, making me feel old all out of proportion with the number of candles on their cakes. Then too it was in the spring that I started working on campus, and in the spring four years ago that I became editor of *New Trail*.

Looking back on the more-than-thirteen years I have worked on campus, I discover that the most gratifying aspect of that time has been the opportunities I have had to meet some very special people.

One of the most fascinating of these — the late 'Pere' Athol Murray, the founder of Notre Dame College of Wilcox, Saskatchewan — has been brought to mind recently.

I met Pere when he received an honorary degree from the University in 1975. My conversations with him were brief, however, arising only from the responsibilities I had for news media liaison in connection with Convocation. A man who knew Pere much better — and the person who recalled this remarkable priest to my mind — has recently acquired an office down the hall from us.

Hal Spelliscy, who was one of Pere Murray's Notre Dame Hounds a good many years ago, became the University's executive director of fund development on April 1. Although he's spent the past few years in Calgary, Hal is well-known in Edmonton, having been the general manager of the Bay in this city for more than a decade and active in community affairs during that time. (One of Hal's 12 children is even better known in Edmonton: Tim Spelliscy is a familiar face on ITV's Oilers hockey telecasts.)

When I spoke with Hal the other day, we talked a bit about Pere Murray. Hal has maintained close ties with Notre Dame College and is currently chairman of the Senate of the College's Board of Regents. I asked him

about the depiction of Pere and the Notre Dame experience in the feature film of a few years back, *The Hounds of Notre Dame*, and he had praise for Tom Peacocke's performance in the title role as the hard-drinking, cigarette-smoking priest with the colorful vocabulary who contributed so much to the lives of so many Prairie boys. The hard-drinking was somewhat overdone, and there were too many "God-damns" — Pere combined those words only rarely — but otherwise the film was a fair depiction of the Notre Dame experience, says Hal. And that experience is something that has very profoundly affected his entire life, he says.

The ability and desire to overcome adversity was something that Pere tried to instill in all his Hounds — "struggle and emerge" was the motto he chose for his school.

That same motto might not be at all inappropriate for the challenge facing Hal Spelliscy at the University of Alberta. The competition for charitable donations has become much more heated — and much more sophisticated — in the '80s, he says. At the same time, private funding is taking on new importance to the University: if the University of Alberta is to achieve the excellence it sets as its over-all goal in its recently-released plan for the future (detailed in this issue), it will need support from many sectors, not least of all private donors.

To "struggle and emerge" will be a major challenge, but it is one the new executive director of fund development is facing with relish. He talks enthusiastically of approaches that the University might take in establishing its claims amidst all of the competition. He talks of planned giving, foundations, annual campaigns, major campaigns, and marketing — and about management, in which he has an abundance of experience.

"Leadership" is a word that he uses often. "You've got to be red hot at the top if you want to be even lukewarm down below," he says. And he's going to be looking for a great deal of that leadership in giving right on campus — from members of the Board of Governors and deans to the people who

cut the grass. And the fund development director will have to be the hottest giver of all, he says.

He also speaks about educating donors: demonstrating to them what kind of difference their gifts can make, and showing how gifts can be planned in order for the University to get maximum gain at minimum cost to the donor. He is confident that if the University puts its case fairly and well to its communities, they will respond.

AS I PREPARE THIS ISSUE FOR PRESS, MY thoughts are directed to two other people, whom it has been my privilege to meet in the course of my work on campus.

For an article on the Arts building, I spoke at some length with Professor J.T. Jones, professor emeritus of English. He was past his 80th year at the time, and his sight and hearing had begun to deteriorate with the years, but he vividly took me back to the early days of the University — I particularly remember his telling of picking a wild tiger lily from the abandoned excavation above which the Arts building would later rise. Professor Jones has now passed away; his death is reported elsewhere in this issue.

This issue also marks the passing of another individual who contributed much to the University: a student shares his memories of the late Don Ross. I did not know the former dean of science well, but on the occasions when I encountered him, he invariably struck me as one of the kindest and most decent of men. He will be missed greatly.

YOU MAY RECALL THAT LAST ISSUE WE had a card attached to the outside of the magazine to facilitate mailing list corrections. The terrific response to that has kept our records clerks even busier than usual. We've also had an extremely gratifying response to our request for voluntary subscriptions, and I would like to thank all of you who sent us \$5 (or more) to help offset mailing expenses.



Memories

Don Ross Remembered

Don Ross, born in Sydney, Nova Scotia in 1914, died in Edmonton in March. An internationally-respected zoologist, he was dean of the University's Faculty of Science from 1964 to 1976 and was named professor emeritus in 1979.

Dr. Ross's fascination with marine biology began while he was an undergraduate student at Dalhousie University, where he earned a BA degree in biology in 1934, winning the governor-general's gold medal and the Avery Prize. After receiving an MA from Dalhousie, he was an 1851 Exhibition Science Research Scholar at Cambridge from 1937 to 1940.

He served as a research officer at the School of Agriculture in Cambridge and then as a lecturer at University College, London before coming to the U of A as head of the department of zoology in 1961.

Dr. Ross played a key role in the establishment of the Bamfield Research Station on Vancouver Island. His many honors included the Queen's Jubilee Medal in 1977 and the Fry Medal of the Canadian Society of Zoologists in 1980.

The following is the text of remarks made by Joel K. Elliott, '83 BSc, at the University Memorial Service held for Don Ross on March 29 in Convocation Hall.

I WOULD FIRST OF ALL LIKE TO THANK Mrs. Ross, Dr. Nursall, and Dr. Spencer for asking me to be part of this memorial service today, and giving me the opportunity to relate my experience as a student of Dr. Ross's.

I first met Dr. Ross about three years ago as an undergraduate student. Two other undergraduate students, Mike Hart and James Dalby, and I were starting work with Dr. Ross on sea anemone behavior at the Bamfield Marine Biology Station. I have to admit that at that time, before that summer had begun, I had my doubts about how exciting that summer was actually going to be — working for a retired university professor, working on, of all things, sea anemone behav-

ior, which at that time I thought was kind of a dry and limited subject.

Dr. Ross drove us to Bamfield that year, and in the truck on the way he told us about his life, the places he had been to, the people he had met, the things he had done, his experiences here at the University. Then I realized that his life had actually been very exciting, and very rewarding — and that, really, there must be something to this anemone biology.

After we got to Bamfield, Dr. Ross showed us the animals, he showed us their behaviors, and he gave us directions as to what he wanted us to do that summer, the kind of questions he wanted asked and answered. We couldn't help but pick up his enthusiasm for his work and his determination to answer those questions that he had asked.

Once Dr. Ross had got us started that summer and taught us the primary skills to do the work, he left us on our own to experience and learn to do science in our own way. And during that time, he supported us in every way possible. We could tell that he felt very responsible for our well-being and also for our progress. In return for his faith in us, we tried our utmost to accomplish as much as we could, to live up to our perception of what his expectations were. At the end of the summer, like a good father to us, Dr. Ross came out and picked us up. He asked us what we had been doing, and we told him what we had accomplished, and he was very excited.

He asked me if I would like to be spokesman for the students and present our research from that summer at a symposium being held at Christmas time in Vancouver. Now, to us that was probably the best compliment we could ever have received. We couldn't have felt better about ourselves, just because of his recognition of our work.

Later that year when all of us went back to University and we started classes and we were busy doing that, he took it upon himself to take our research and write it up into a scientific paper. When he finished that paper, he named us undergraduates as principal authors. This was some-

thing I thought was just an unheard-of act of generosity. All he replied to our thank-yous was that "this will help you guys out in entering graduate school." And that it really has.

Dr. Ross gave us, his students, his utmost support, his encouragement, and respect. He really asked for nothing in return, except that we try our best, and his philosophy was very effective in getting us interested in marine biology and going on and doing our own research at a later time.

Of the four of us who had been working with Dr. Ross over the past three years, three of us have gone on to graduate school, and one is planning on going on to graduate school. I have no doubt in my mind that it was Dr. Ross's influence — his positive influence on us as undergraduates — that gave us the confidence and the desire to continue on and do research at the graduate level.

And speaking for all of us: we will be forever grateful to Dr. Ross and his unequalled contribution to our careers.

I am very proud that I have had the opportunity to know Dr. Ross and to be one of his students. Memories of him will always be with me. Every

Dean Ross (1971 photo)



time I take that long, lonely trip to Bamfield, everytime I see the fascination on a student's face when a sea anemone detaches from the bottom of a tank and gets up and swims away from a starfish, and everytime I think about how I got into this game of marine biology in the first place, I will remember him. And I'll miss him.

University Loses Link With Past

A MAN WHO WAS ONE OF THE UNIVERSITY'S closest links with its past has died.

John Thomas Jones, professor emeritus of English, passed away at the University Hospital on February 12. He was 87 years old.

A native of Wales, he came to Edmonton with his family in 1909. On his completion of high school, he enrolled in the University of Alberta and earned an honors BA degree in English in 1921. The following year, he became an instructor in the English department. By 1926 he had completed his MA and was given a two-year leave of absence to attend Oxford

University, where he was subsequently awarded an MA degree. On his return to Alberta, he was appointed an assistant professor.

Professor Jones was proud of the part he played as a member and part-time chairman of an alumni committee that raised funds for the building of the pipe organ installed in Convocation Hall in 1925, in memory of the students and graduates who gave their lives in the Great War.

During the Second World War, Professor Jones served in the COTC and later in the regular army. He spent the last three years of the War as an instructor with the rank of captain at basic training camps in Wetaskiwin, Alberta and Nanaimo, B.C. During 1944, while still in the army, he was appointed associate professor. His army experience is reflected in two articles he wrote after the War on military tactics in the novels of Sir Walter Scott.

Professor Jones enjoyed teaching the student veterans who flooded the University after the War. He made friends among them, and they retained their respect and affection for him. Indeed, the way in which friendships he made with students persisted is one of the most interesting aspects

of his life. It was not unusual to hear him speaking of having met students from many years past who had taken the time to renew their acquaintance with him.

Professor Jones became a full professor in 1950 and head of the department of English in 1953. He held a strong belief in the importance of the Arts Faculty and of the English department in that faculty. As a consequence, he was a stout defender of both if he felt their positions threatened. While carrying out his administrative duties, he continued to find satisfaction in teaching, especially of his favorite poet, John Milton.

Professor Jones resigned his headship in 1961 and resumed full-time teaching until his retirement in 1964. However he returned to the English department in 1976 to give the Broadus Lectures on "Counting Syllables in English Verse." He dealt with the topic in four lectures, a heavy task for a man of his age. Yet he found great satisfaction in it, and undoubtedly regarded the series as what it indeed was: the culmination of a career of more than 40 years spent in faithful service to the University of Alberta and its students. <

ALUMNI COLLEGE WEEKEND

The Alumni Association is considering offering an alumni college weekend in July 1987. This program would consist of academic seminars, tours of campus and other local points of interest, social events and activities for children. Alumni, their spouses and children would stay at Lister Hall residence and enjoy a relaxing and stimulating weekend at the University. The cost for a three-day program would be approximately \$100 per adult (meals extra) and \$50 per child.

Anyone interested in this type of program, is asked to contact the Alumni Affairs Office. If enough interest is indicated, we will be happy to organize such an event.

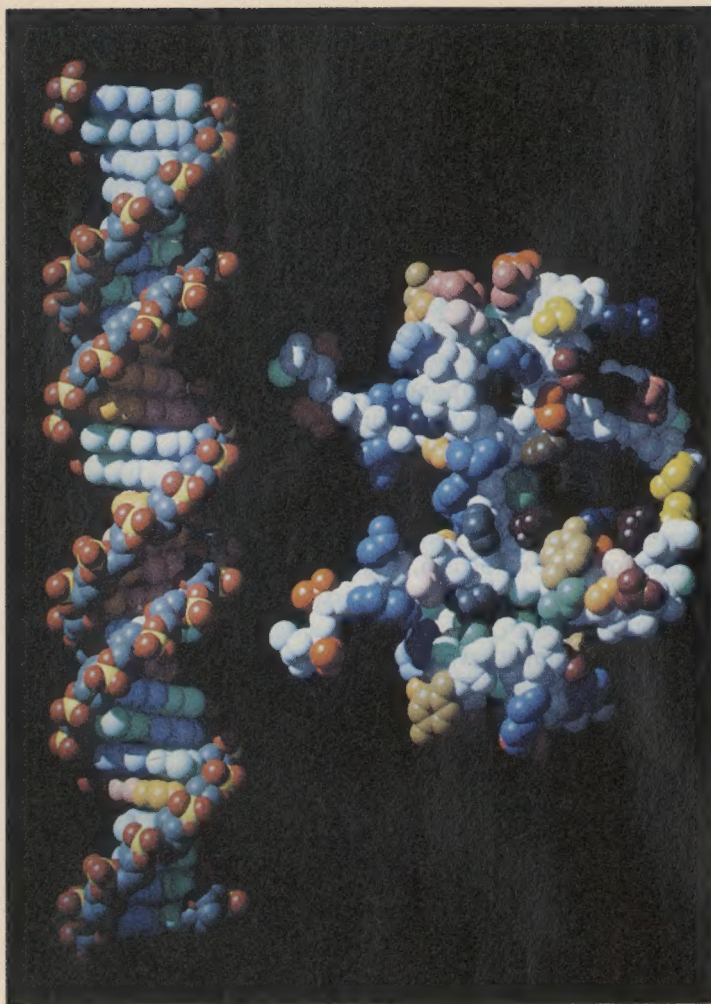
1986 Class Reunions

The Alumni Association is happy to assist individual classes in organizing special events during Homecoming (September 19-21, 1986) or reunions at times other than Homecoming. The following classes are currently planning reunions for the coming year:

CLASS/PLACE/DATES/CONTACT

'36 Medicine Edmonton/Sept 24-26/Dr Max Dolgoy
'36 Electrical Engineering Edmonton/Sept 19-21/Hugh McColeman
'41 Medicine Nanaimo/Sept 9-11/Dr Gordon Blott
'46 Medicine (Fall) Edmonton/Sept 24-26/Dr R Fraser
'46 Electrical Engineering Edmonton/Sept 19-21/T Sissons & WH Cowley
'56 BSc Nursing Vancouver/June 26-28/Ruth Elliott
'61 Civil Engineering Edmonton/Sept 19-21/Leon Root
'61 Electrical Engineering Edmonton/Sept 19-21/Fred Paranchych
'61 Medicine Edmonton/Sept 24-26/Dr A Pomahac & Dr R C Boake
'61 Physiotherapy TBA/Sept 19-21/Janet Heaps
'66 (Sept) UAH Nursing Edmonton/late Sept/Sharon Acheson
'75,'76,'77 Recreation Administration Edmonton/Sept 19-21/Terry Vaughn
'76 Medicine Banff/May 16-18/Dr Janet Yoneda
'76 BSc Nursing Edmonton/Sept 19-21/Bernie Schrag
'76 Electrical Engineering Edmonton/Sept 19-21/J Bertrand & A Thomas
'76 (Aug) UAH Nursing Edmonton/Aug 1-3/Nancy Newby

Some locations and dates are tentative. Should you require information on the reunions noted, or if you wish to organize a reunion for a class not listed, please contact the Alumni Office.



BIOTECHNOLOGY

PAST & PROSPECTS

A Special Report
by Dr. David Nash

This fall, the first University of Alberta undergraduates will enroll in "Cell Biotechnology", a new program offered jointly by the departments of microbiology and genetics in the Faculty of Science. David Nash, chairman of the department of genetics, marks the event with a look at the origins of biotechnology, and its future.

The images conjured by the word "technology" are mathematical, or physical, or chemical, but rarely biological. We appreciate the relationship of science to technology; we acknowledge biology as science; yet we do not expect biology to be truly instrumental in providing new technological developments. It seems that this view of biology is headed for radical revision. There has been startling growth in our understanding of living things during the last half-century, giving the analytical insight needed to construct a high technology based upon the manipulation of cells and organisms. This new technology, called "biotechnology", promises subtle developments in areas fundamental to human well-being.

When, in the mid-nineteenth century, Gregor Mendel, the father of genetics, sowed and harvested garden peas, he sowed, too, the seeds of biotechnology. Mendel discovered patterns of variation that suggested that specific cellular factors (we call them "genes") are responsible for heredity. His ideas were not understood at first, but after almost a century it had become clear that genes were universal carriers of inheritance — in all organisms and for virtually all characteristics. Strong evidence had accumulated that a hitherto obscure chemical, deoxyribonucleic acid (DNA), was, in effect, the genes. DNA had been known since 1870,

but its chemical structure was baffling and its ability to direct heredity was even more so.

Then, in 1953, one of the truly wonderful intellectual syntheses of all time took place. Two young and unknown scientists, Francis Crick and James Watson, studied all the available information on DNA and devised their now-famous DNA "double helix". The wonder of the molecular structure they described was that it both solved the chemical puzzle of DNA structure and showed in general, how DNA could duplicate itself and direct biological function, the two primary requirements for its role as genes.

Watson and Crick's proposal proved essentially correct. A new breed of scientists — they called themselves "molecular biologists" — followed. They refined understanding of the rules by which DNA operates; DNA, they demonstrated, directs synthesis of proteins. The coding system used in DNA was deciphered and special regions of

The title illustration shows a protein and (to the left) the DNA sequence to which it binds. Biochemists at the University of Alberta are interested in learning how proteins, such as this one involved in repressing the expression of certain genes, recognize particular DNA sequences. The image was computer-generated using a program especially developed for the U of A's MRC Group on Protein Structure and Function.



The four bacterial colonies shown above contain plasmids carrying a cloned gene and a jumping gene. The plasmids are integrated in the colony at top right, being excised in the colony at top left, and excision is complete in the two colonies below. During the excision process, bits of the cloned gene are lost from the plasmids. This discovery has allowed researchers in the U of A's genetics department to develop a new method of analysing genetic information in genes. This method is now being used in laboratories around the world.

DNA concerned with switching genes "on" and "off" were found.

Barely a year went by without major new technical or conceptual advances. Today, we can isolate particular genes and transfer them to other organisms. We are learning to "read" genes, and to understand their meaning. We are unravelling the intricacies of the genetic control of embryonic development. This new-found understanding brings us to biotechnology; for, more than anything else, biotechnology is applied molecular biology.

So, is biotechnology really new? Surely, man always depended on organisms for food? Has not man's inventiveness also exploited living things for clothing, shelter and transportation, for example? Don't some of our old established technologies — manufacture of milk or honey or cheese or wine, for example — involve organisms as tools in the process, rather than as end-products?

Yes, man has always interacted technologically with other organisms. However, before this century, the interactions were only coincidentally applied biology. Most were established long before we understood their biological basis, even before the species involved were recognized. They were improved by man, often by conscious selection of desirable organisms; but, the improvements were empirical. As long as we did not comprehend the nature of biological process, improvement demanded the chance occurrence of useful varieties. Not until this century did Mendel's work allow us to optimize improvement of domesticated organisms. It is only now that we see a real prospect of tailoring organisms to novel and useful ends.

Discussions of biotechnology often centre on the notion of "playing God", of creating radically new life-forms. It is my intention to de-emphasize this, for two reasons. First, it is a good deal easier to imagine what one might

create, than it is to create what one might imagine — and biotechnology, if it is anything, must be realistic! Second, we can only make rather small changes to organisms; if one is to argue for biotechnology now, it must be on the basis of what it offers now.

What kind of realistic practical advances should we expect from biotechnology? Fundamentally, they fall into three classes: the medical, the industrial and the agricultural.

The most immediate impact is likely to be medical. Medicine has long used natural products (for example) to combat infections, as with antibiotics, or as substitutes for missing bodily components, like insulin. There is real potential for the re-engineering of micro-organisms to produce such natural products. In particular, scarce products normally made in the human body, can now be made efficiently and cheaply in microbes, as a result of gene transfers. Insulin, human growth hormone, a treatment for some forms of dwarfism, and the factor commonly absent in hemophiliacs are among the compounds that have been made this way.

Biotechnology will revolutionize diagnostics: every kind of organism, including infectious microbes, carries characteristic genes; because of the chemical structure of DNA, the most efficient tool to identify a gene is another gene of the same kind. Thus, the new diagnostic reagents are portions of genes that characterize particular disease organisms, but produced in commercial quantities in other, perfectly harmless, species. Using similar reasoning, it is now possible to distinguish normal from abnormal human genes, a significant advance for reproductive counselling; it will often allow identification of an abnormal fetus, or of parents whose children are at risk.

Perhaps the most exciting immediate prospect for medicine is genetic engineering of harmless organisms to produce vaccines against dangerous infectious diseases. This should, at low cost, increase the range of vaccines available, ensure their complete safety and significantly reduce the time needed to produce a vaccine, against a new "flu bug", for example.

The industrial prospects biotechnology holds for industry are not as immediate as those for medicine. Early applications will presumably be in chemical processing, either as part of product manufacture or in degradation of waste products. Apart from pharmaceuticals, the major industry using biological systems is brewing. If economics so dictate, recent growth in the use of alcohol as fuel may foster genetic engineering aimed at using cellulose (the main component of wood) rather than sugar as the starting point for fermentation.

To this point, I have described, exclusively, prospects that involve rather simple modifications of micro-organisms. Practically, any kind of genetic transfer we can envisage seems to work; but there are problems when it comes to operation of foreign genes in new host organisms. Basically, fundamental biotechnological research has so far concentrated on ironing out problems in micro-organisms; in more complex organisms, it's still hit or miss. Further, we do not yet fully understand the normal patterns of gene activity in most complex organisms. Hence, although we can transfer genes to man, for example, we cannot predict whether they would work properly, and indeed, would often not recognize proper operation if we saw it!

We will probably see the first commercial applications of biotechnology to the engineering of "higher" organisms in agriculture. In a sense, biotechnology (in the form of the application of Mendelian genetics, rather than molecular biology) took root in agriculture 50 years or more ago. While some plant and animal breeding remains quite empirical, there are some agricultural developments, such as hybrid corn, which depend on a sophisticated understanding of the underlying patterns of inheritance.

Commercial plant breeders have established certain areas in which almost-routine gene transfers are made between varieties or even species, particularly for up-dating of disease resistance. Gene transfers of this kind can be performed effectively by the new technology. The new methods are quicker and more effective than conventional genetic crossing. Characteristics like disease, drought and pesticide resistance are critically important to the farmer and biotechnology offers prospects of real advances on these fronts in the near future.

Of more grandiose possibilities, I will say little. Radical genetic surgery on plants, animals, even on man, looks to be some years away. We may start by persuading new plants to host nitrogen-fixing bacteria (as legumes do now) and reduce fertilizer costs, or perhaps replace defective genes in humans suffering genetic diseases. Progress will probably be slow, but even the small biological changes that we can create now will surely produce large social consequences. Man will need time to adjust to the new-found tools. There is a major educational task ahead of us too, which brings me back to my introductory remarks.

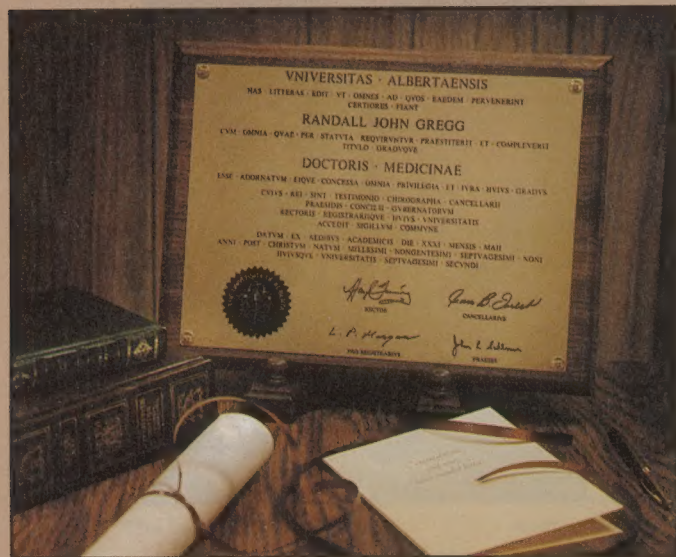
At the beginning, I introduced the notion that biology is not generally thought of as a "technological" science. In fact, the schism between the physical sciences and biology

in this regard is comparatively new, for science-based high technology is itself only a few hundred years old. Before that, our practical understanding of the physical world came largely from the knowledge of craftsmen, with ideas scarcely more sophisticated than the crude notions of their contemporaries who practiced medicine and agriculture.

As science developed, our understanding of physics and chemistry came first. Biology, a complex and special case of physics and chemistry, inevitably lagged behind. With understanding comes utility; physics and chemistry have proven themselves reliable practical guides to the properties of things. We may regret the insensitivity of our industrial society to biological problems, such as chemical carcinogens and acid rain; but, to be fair, the imprecision of our understanding of life processes has, until now, argued for non-living industrial options. It is not without commercial logic that the usual training for industrial scientists and for engineers is devoid of biology.

Our understanding of biology has now increased to the point where we expect accelerating application of that knowledge. It follows that patterns of technological education must evolve. At the University of Alberta, we expect our first undergraduate registrants in "Cell Biotechnology" this year. This program, which offers both honors and specialization degree patterns, focusses upon the cellular physiology, microbiology, molecular biology, genetics, biochemistry and chemistry. Bench work will be emphasized. We expect that the graduates will eventually help satisfy one of the few job markets where world-wide demand still exceeds supply. At the same time, we hope that the existence of the program will help stimulate local biotechnological enterprise to the benefit of Albertans as a whole. <

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I have enclosed a deposit of \$_____ (\$20 per plaque) and agree to pay the balance upon delivery. (Including \$4 postage and handling; \$7.50 for overseas orders.)

Name _____
Address _____
City _____ Province _____
Country _____
Postal Code _____ Telephone _____
Class Year _____ Degree _____

Imagery



Watching the Howenai

Watercolor, diptych / 2(19 X 76 cm)

Irene Klar, '77 BFA

was born in Montreal and studied physiotherapy at McGill University before moving to Edmonton in 1973. Her art reflects her interest in fabric, an interest stimulated by visits to places such as Australia and Japan, where she was intrigued by the beautiful silk kimonos of the Japanese people. During a trip to the American southwest, she became inspired not only by the intricate designs of the Navajo and Hopi blankets, but also by the land, the Native people and their traditions — all of which she subsequently incorporated into her watercolors and print work.

She has taught art with the U of A Faculty of Extension since 1978. Her work is included in numerous private and public collections including the Edmonton Art Gallery, the Canada Council Art Bank, and the Alberta Art Foundation.

Ms. Klar is represented by Horizon Art Galleries in Edmonton; Jill Owen Inc. in Montreal; and Joan Cawley Galleries in Scottsdale, Arizona. A one-person show of her work is planned for Montreal this fall. ◁



Katsura Kimono

Serigraph / Edition: 65 / 50 X 36 cm

Campus Reporter

AROUND & ABOUT

THOSE IN ATTENDANCE WHEN THE UNIVERSITY'S Research Prize Lectures were delivered on March 26 learned about the fun of fiction and manipulation of the microbe. In a relaxed reminiscence entitled "Only a Novel" 1986 Research Prize Laureate Juliet McMaster reflected on the years she has spent reading, teaching, and writing about fiction. "Man Manipulates the Microbe" was the lecture given by Donald Westlake, the other 1986 Research Prize winner. In it, he surveyed the human utilization of microbes from ancient times to the present day.

ON MARCH 25, MORE THAN 500 PEOPLE WERE ON hand as Walter Light, the retired chairman of Northern Telecom Ltd., and Eric Geddes, senior partner of Price Waterhouse were honored at the fifth annual Dean's MBAA Forum Dinner. Mr. Light received the Canadian Business Leader Award and Mr. Geddes was named the first recipient of the Distinguished Alumnus Award.

THE UNIVERSITY OF ALBERTA HAS ENDORSED the first Canadian PhD program in nursing, which is to be offered when appropriate funding becomes available.

WITH THE BEGINNING OF THE ARTS BUILDING renovations, the occupants of that fine old campus building are being resettled in trailer units which have been placed north of the Arts Building and at the site of the late Algonquin Apartments. Renovations are expected to be completed late in 1988.

PROFESSOR OF PHYSICS WERNER ISRAEL WAS elected a fellow of the Royal Society in March, one of only two Canadians to be so honored. In recent years, Dr. Israel has made important contributions to the theoretical understanding of black hole phenomena.

IN APRIL, BILL MEILEN BROUGHT HOME A Nellie from the ACTRA Awards presentation in Toronto. The professor of drama earned the Andrew Allan Award for Best Leading Performance in Radio for his portrayal of a Czech miner working at Frank, Alberta in the CBC Radio national drama "The Legend of Old Charlie."

M. STOCK, A RECENT GRADUATE FROM THE department of zoology, was the winner of the Canadian Society of Zoologists Outstanding Thesis Award for 1985.

ON JUNE 30, DORIS BADIR, WHO HAS SERVED AS dean of the Faculty of Home Economics for the past 10 years, will take on new challenges at the University as the special assistant to the president on matters of equity.

FOR HIS "MANY CONTRIBUTIONS TO CHARTERED accounting education and meaningful interaction with the CA profession," Ross Denham, associate dean of the Faculty of Business, was awarded the first Vic Dzurko Memorial Fellowship of the Accounting Education Foundation of Alberta.

DURING THE PAST ACADEMIC YEAR, ABOUT 150 student volunteers working through her office gave freely of their time to help their disabled fellows, says Marion Nicely, the University's disabled students' co-ordinator.

EDMONTON'S MAYOR, LAURENCE DECORE, recently presented a Silver Ribbon Award to Clare Drake in recognition of Coach Drake's record breaking 556 wins as a college hockey coach. This spring, the Golden Bear hockey team won another Canadian university hockey crown with a 5-2 victory over the Trois-Rivières Patriotes.

MORE AND MORE ADULTS ARE TAKING advantage of the "unclassified student" designation to enroll in credit courses at the University without committing themselves to a degree program. There were 572 last term — a 73 per cent increase over the previous year.

TWO FACULTY MEMBERS IN THE DEPARTMENT OF chemistry won major awards from the Chemical Institute of Canada recently. Paul Kébarle received the CIC Medal (made of rare paladium). The Merck, Sharp and Dohme Award, given annually to an organic chemist under the age of 40, went to John Vederas.

RAYMOND GRANT'S YEAR GOT OFF TO A BUSY start. In January the professor of English had a book on Robert Burns come off the press, delivered the English department's Broadus Lectures (also on Burns) and spoke at three Burns suppers.

THE EXTENSION FACULTY AND 'EDMONTON telephones' are hoping to offer a summer computer camp for grades 7 to 11. If all goes well and funding can be arranged, the series would begin August 11 and run until August 29. For information: 432-5597.



Chancellor-elect Miller

Miller Elected Chancellor

TEVIE MILLER, ASSOCIATE CHIEF JUSTICE, Court of Queen's Bench of Alberta, will be the University's next chancellor.

Associate Chief Justice Miller, who will also serve as chairman of Senate in his new position, will begin his four-year term as chancellor on July 1 of this year. He was elected at the February meeting of the University Senate and will be the University's 13th chancellor, succeeding Peter Savaryn.

The chancellor-elect is no stranger to the University of Alberta. He earned BA and LLB degrees on campus, was president of the Students' Union and later sat on the Senate and the Board of Governors. He has also served as the president of the Alumni Association and as a sessional lecturer in the Faculty of Law.

Appointed Queen's Counsel in 1968, he was a senior partner of Miller, Witten, Friedman, Pekarsky and Vogel and the president of the Edmonton Bar Association.

Community involvement is a big part of the chancellor-elect's life. He has been president of the United Way of Edmonton, a board member of the Edmonton Association for Retarded Children, chairman of the City of Edmonton Community Foundation, president of the Edmonton Symphony Society, and vice-president of the board of the XI Commonwealth Games (1978) Foundation.

Goodbye Line-ups

REMEMBER THE LONG LINE-UPS IN THE Gyms and Ice Arena? The rushing back and forth from building to building to confirm classes?

For generations of University of Alberta students, registration meant just that — standing in line after line and countless trips across campus. But that is now a thing of the past.

Commencing with the 1986-87 academic year there will no longer be in-person registration of students at the University. It's all being done through the telephone system: students can now complete their registration from anywhere in the world where they have access to a push-button telephone. And it seems to be working wonderfully well.

The new telephone registration system — the first at a Canadian university — was inaugurated on March 24 of this year, at which time the lines were opened to returning students. By April 21 the system had accepted a total of 15,893 phone calls — almost 4,000 per week — and 6,673 students had completed their registration. (May 1 was the opening date set for new registrations.)

The system is being well accepted by the students and there have been no major problems to date, says Associate Registrar Hugh King, who is the project leader for the telephone registration system.

"Our ambitious expectations proved correct," he says in reference to the relatively short period between the decision to proceed with a telephone registration system (May 1985) and the actual implementation. He admits that there was "a lot of nail biting" as March 24 approached, but the programmers did "a super job," he says.

The system they devised is similar to those operating at a few U.S. institutions, but it has its own twists. In order to facilitate the registration process, students are given very detailed instructions in a pre-registration package and the system itself is very "user-friendly."

The registrant receives a voice response to each entry made, and can easily have his entire registration read



Scenes such as this are things of the past now that telephone registration has arrived.

back to him. Once the registration is complete, it can easily be altered or entirely cancelled at any time prior to the registration deadline, which is September 10 this year.

Hyndman Prize Established

THE LAW FIRM OF FIELD AND FIELD HAS established the Master L.D. Hyndman Prize. It is to be awarded annually to the student obtaining the highest marks in the Legal Responsibility Course at the University.

The prize bears a monetary value of \$500 and honors L.D. Hyndman, QC, a 1927 graduate of the University.

Field and Field have been the University's solicitors since approximately 1918, and Mr. Hyndman represented the University on a number of occasions.

SYU Returns

THE SUMMER YOUTH UNIVERSITY is promising junior and senior high school students two stimulating, fun-filled weeks on campus in July.

Introduced last summer, the SYU has expanded this year, offering four different programs combining arts and science courses with a lifestyle and fitness program, library and campus tours, and a daily recreational swim. It is co-ordinated and presented by the Faculty of Extension and the department of athletics.

Last year it attracted 200 students from Alberta and the N.W.T. and they responded very positively.

The academic units participating this year include: animal science, computing science, English, family studies, genetics, geography, law, microbiology, music, physics, psychology, and zoology. An immersion computing science program will be offered to grade 12 students only with daily "hands on" computer time, plus supervised computing time in the evenings.

SYU '86 will provide individual attention in small groups. Arts and science classes are limited to 18 students. The computer science class is limited to 22, the number of terminals available.

More information and registration forms are available through the Faculty of Extension; telephone 432-5597, Edmonton.

Library Grows

THE LIBRARY COLLECTION OF THE DEPARTMENT of East Asian languages and literature has grown by leaps and bounds in the past few months, thanks to yet another donation from the Japan Foundation and the purchase of a major collection of Chinese books.

The Chinese collection, comprising about 11,000 volumes, was recently acquired from James Hightower, a retired Harvard professor. Professor Hightower, who had amassed the books in the 1930s while a student in Peking, was willing to sell them only

to a university with a dynamic and expanding Chinese department.

The University of Alberta was able to manage the \$70,000 purchase price by consolidating a gift of \$10,000 from the *Edmonton Journal* with a number of other gifts, all of which were matched by the Province of Alberta.

"With this acquisition we now have the basis of a first-rate collection," says Jack Lin, professor and library representative for the East Asian language and literatures department.

The gift from the Japan Foundation consisted of 103 volumes, valued at \$2,470. Roughly half of the donation is of books of Japanese literature and intellectual history; the other half consists of teaching support materials including a large number of dictionaries.

This most recent gift from the Japan Foundation is the eighth gift of books made to the department of East Asian languages and literature by this non-profit organization.

Director Named

HALLIDAY (HAL) SPELLISCY HAS BEEN APPOINTED executive director of fund development for the University of Alberta. He assumed his new position on April 1.

A native of Regina, Mr. Spelliscy took early retirement from the Hudson's Bay Company at the end of January 1986. He had been living in Calgary.

His career with the Bay began in 1950 when he became an executive trainee in Saskatoon. After serving as a department manager for stores in Winnipeg and Calgary, he went on to hold corporate managerial positions in Vancouver, Toronto, Edmonton and Calgary. He spent 23 of his 36 years with the Bay in Alberta and was general manager of the company's stores in northern and then southern Alberta before being named general manager for the Bay's Alberta operations.

Mr. Spelliscy has had extensive and diverse involvement in community affairs and associated fundraising in cities from Toronto to Vancouver. In Edmonton, he was a founder of the Fort Edmonton Voyageurs, Jasper Av-



Fund Development Director Spelliscy

enue Business Group, and the Edmonton Friars, and was active in the Chamber of Commerce, United Way, and the University Senate.

Scholarship Awarded

GRANT BORBRIDGE, A FOURTH-YEAR ARTS student at the University of Alberta, has been chosen as the 1986 recipient of the Maimie S. Simpson Memorial Scholarship.

In part, the scholarship recognizes Mr. Borbridge's active involvement in

University affairs. That involvement included serving on the University Senate and several of its committees, including the honorary degrees committee and the task force on the delivery of university education.

In addition, Mr. Borbridge spent two years as the housing and transport commissioner for the Students' Union. During his term of office he was instrumental in bringing about the repair of the Stadium Car Park and the negotiation of less than a one per cent increase in rent in the Housing and Food Services agreement.

Mr. Borbridge was also active in the Garneau Tenants Association this past year.

Mr. Borbridge plans to continue his education at the University of Alberta next year in either the Faculty of Business or the Faculty of Law.

The Maimie S. Simpson Memorial Scholarship is awarded annually by the Alumni Association to a student who has made a significant contribution to student life at the University while maintaining a satisfactory academic record. Named in memory of the woman who was dean of women at the University from 1950 until 1960, the scholarship is in the amount of \$1,500. <

BRANCH PRESIDENTS

If you live in any of the following areas, you have the opportunity to participate in branch events. If you would like information on upcoming events or would like to get involved with organizing branch activities, please contact the president of the branch in your area.

VICTORIA

Sid Dineen
Phone (604) 478-9320

GRANDE PRAIRIE

Jack Mighton
Phone (403) 539-2989

TORONTO

Arvid Fonkalsrud
Phone (416) 862-8335

OTTAWA

Raymond Conway
Phone (623) 996-7861

WASHINGTON, D.C.

Bernard Masters
Phone (703) 273-4480

VANCOUVER

Dorothy Weiher-Tolmie
Phone (604) 594-4300

CALGARY

Ian Ferguson
Phone (403) 282-5356

NOVA SCOTIA

Linnet Murray
Phone (902) 423-9976

WINNIPEG

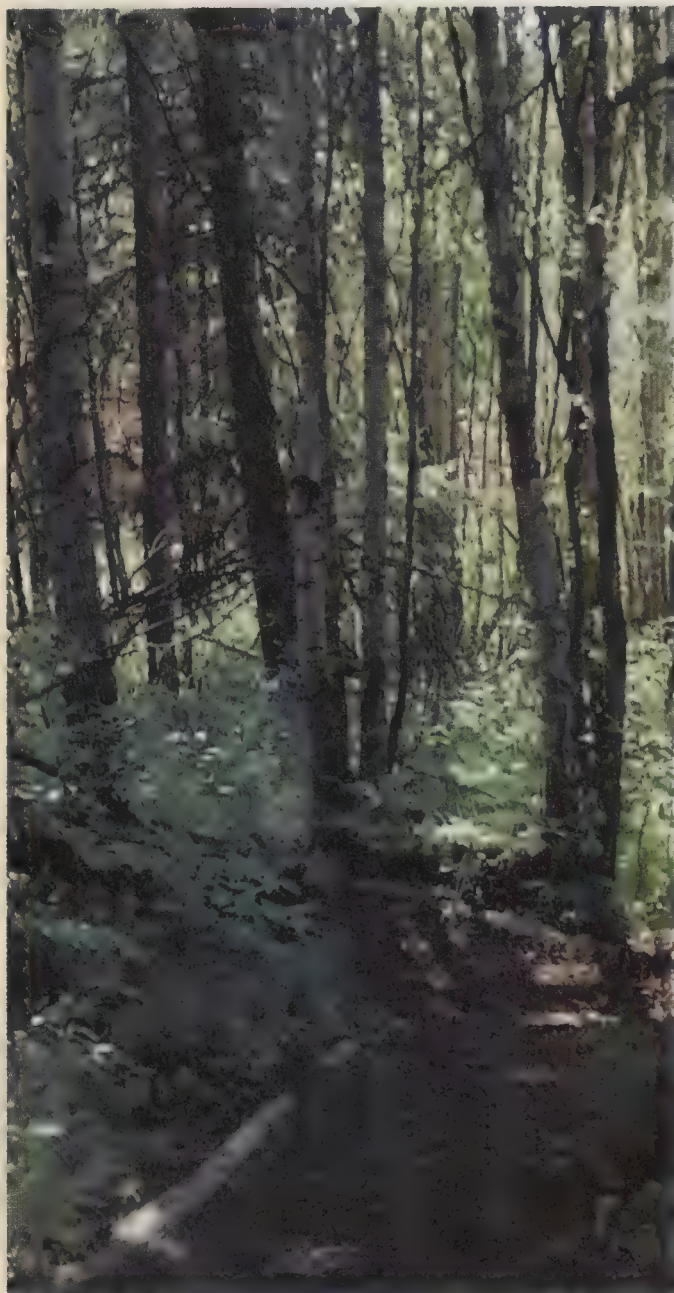
Colin Lorback
Phone (204) 474-8700

HONG KONG

Trevor Mak
Phone 852-3-7438044

A Garden and Friends:

The Flowering of the Devonian Botanic Garden



Sunlight filtering through the mixed stand of aspen and birch places a crazy quilt of light and shadow upon the woodland path. Not far away, the brilliant display of iris in full bloom brings a dell to vibrant life. Over a piece, the blooms of a mountain species, so very delicate in appearance, belie the tenacity with which the plant defies the extremes of its alpine existence.

It is a splendid morning at the University of Alberta Devonian Botanic Garden. All about, plants native to Alberta compete for attention with introduced species. Some make a brazen show of color. Others capture attention cooly, saving their charms for the sharp-of-eye. Enveloping all — the native and the newcomer, the dandy and the demure — is the perfume of the parkland in summer. Upon all shines the bright Alberta sun.

Perhaps it was on a morning such as this that the late Sandy Dyde (H.A. Dyde, QC, '16 BA) first contemplated his gift to the University which made possible the founding of the "Botanic Garden and Field Laboratory" of the department of botany in 1959.

The story of the Garden's development from its modest beginnings to the present day is one of businesses, private foundations, government and individuals co-operating in the best tradition of support for a university endeavor. Two of the earlier grants to the Garden came from the Stanley Smith Horticultural Trust in Scotland and Imperial Oil respectively. The Smith contribution initiated the Alpine Garden, and the Imperial Oil funding established a garden of plants used by the Native peoples of Alberta. For all capital grants made to it, the Botanic Garden has received matching funds from Alberta Advanced Education.

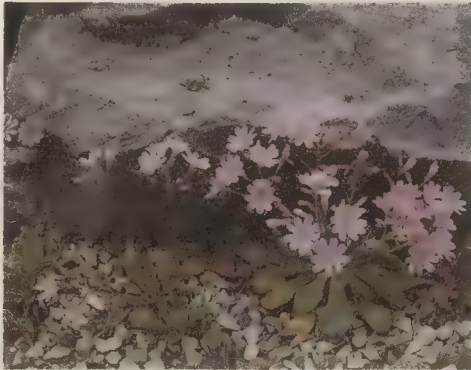
The land donated by Mr. Dyde to the University comprised about 32 hectares (80 acres) of Aeolian sand dunes and peat slough located five kilometres north of Devon, just off the road which would later become Highway 60. Here, under the direction of Dr. J. H. Whyte, plots were cleared, drainage ditches dug and several small buildings erected. All this was done on a minimal budget.

Then came calamity. In 1974 there was a wet fall. It was followed by a winter of heavy snow. In the summer of 1975, the excess water did not drain and thousands of plants were killed. The water did recede by the spring of 1976.

Meanwhile, the Friends of the Garden — a group founded in 1971 with 100 charter members — had set about raising funds to repair the damage. The Friends were successful in obtaining a large grant from the Devonian Foundation — not only to repair the damage done by the flood, but also to build a headquarters complex and greenhouses, and to acquire an additional 44.5 hectares of land. At this time the Garden's official name was changed to the University of Alberta Devonian Botanic Garden.

Shortly afterwards, the Garden became an administrative unit of the University's Faculty of Interdisciplinary Studies, and in 1976, Pat Seymour, who had served as the

The Garden in Bloom



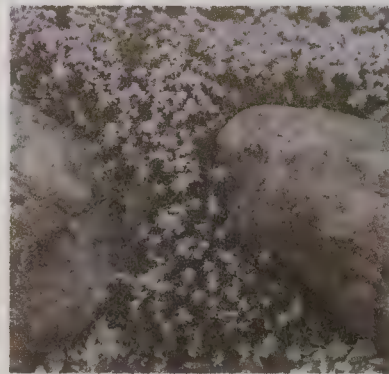
Lewisia cotyledon



Erigeron linearis



Paeony collection



Silene acaulis



Inula



Lilies



Dianthus boydii

Garden's assistant director for five years, became it's director.

At the same time, work on reconstructing the flooded area began. The Calla Pond was deepened to six metres. On one side was planted a collection of trees and shrubs; on the other, a Garden of Alberta Plants. The Iris Dell ditch was extended into the Grebe Water and land raised in-between for the garden of plants used by the Native peoples of Alberta.

An herb garden was constructed with a grant from the Clifford E. Lee. Foundation — it now contains a wide variety of herbal plants. The Muttart Foundation provided money for the construction of the show greenhouse and, with a later grant, for its landscaping. This greenhouse will eventually have only southern hemisphere plants.

The Iris Dell now boasts an extensive collection of Siberian Iris backed by cultivars of *Thuja*. The Primula Dell now contains a large collection of *Primula*, *Meconopsis* (Himalayan Poppies) and other plants. The deep snow cover of this area makes it excellent for Himalayan and west-Chinese plants.

In a basin in the sand dunes has been constructed a large alpine garden. Here a lawn is surrounded by a scree, a boulder bowl, a traditional rock garden (with native al-pines) and two simulated glaciated ridges. The vegetation includes specimens from Europe, the mountains of Asia, and some from as faraway as New Zealand. This garden is at its best in May.

A nature trail links the alpine garden to the head-quarters complex and extends through the 44.5 additional hectares.

To the south of the headquarters is a 2.5-hectare plot which has been reserved for the Kurimoto Japanese Garden, so named in honor of the late Yuichi Kurimoto of Nagoya, Japan. Dr. Kurimoto, '30 BA, the founder of Nagoya University of Commerce, was the first Japanese national to graduate from the University of Alberta. Prior to his death, he donated two lanterns for the garden, and last fall the Garden acquired a third when a stone lantern presented to the people of Alberta by the governor of Hof-faido, Japan was turned over to the University. That lan-tern now has a temporary home in the Garden's Muttart Showhouse.

After Dr. Kurimoto's death, his family made a gener-ous contribution toward the Japanese Garden, and it is currently about one-third funded. The Kurimoto Garden,



Hemerocallis

for which the architect is Dr. Jubo of Osaka Prefecture University, will take about two years to complete once construction begins.

As an adjunct to its other activities, the Garden oper-ates a year-round education program, sponsored by the Friends of the Garden. This activity has increased steadily over the past four years, and in the past year there were 874 registrations in 66 courses, which ranged from practical gardening to crafts and flower arranging.

The Friends organization itself has grown from the 100 original members to 912 in 1985. Among the benefits of membership are a quarterly magazine, *Kinnikinnick*, and access to free seeds — one of the ways in which the Gar-den's new plant introductions reach the public.

Over the years, the Friends have contributed more than 50 per cent of the Garden's budget, and their support has been a tremendous help. Their fundraising includes sales at the Shop-in-the-Garden and at various Edmonton locations at special times of the year. A most versatile and enthusiastic group, last year members contributed a total of 5,414 volunteer hours.◀

The Garden welcomes the public. From May 1 to September 30, it is open from 10 a.m. until 6 p.m. daily, including weekends and holidays. Admission is free.

KEEP IN TOUCH!

Please advise us of address changes:

☐ Please revise my address to the one below.
I am enclosing my old address label.

☐ I am receiving more than one copy of each issue.
Please send only one to the address below.
I am enclosing all my address labels.

Name _____

Address _____

Postal Code _____ Telephone _____

What are you doing now?

*Use the space below to let us and, through us,
your friends know what you are doing now.*

Association News

Homecoming Schedule Finalized

IT'S TIME TO CELEBRATE! THE SCHEDULE has been finalized and it's time to make plans to attend. From September 19 to 21, the University of Alberta will play host to returning alumni from across Canada and the United States at the annual Homecoming Weekend.

Homecoming 86 will begin with a registration and opening reception at the Stollery Centre (located in the new Business Building) on Friday evening. All returning graduates are encouraged to register on Friday in order to determine which of their classmates are in town for Homecoming. The reception will be an informal event featuring wine and hors d'oeuvres and providing the opportunity for visits with old friends and new acquaintances.

Alumni should be ready for a busy day on Saturday. Early in the morning, coffee and "Tuck Shop" cinnamon buns, which have become a campus tradition, will be served in the Heritage Lounge of Athabasca Hall. Afterwards, campus tours, conducted by university students, will depart.

The tours will provide grads the opportunity to visit places once familiar to them and to view interesting new buildings and the landscaping of recent years. Alumni will also have the opportunity to view some of the treasures of the University Collections during visits to the University muse-

ums. Those visits are being hosted by volunteers from the Friends of the University of Alberta Museums.

Saturday lunch is scheduled for L'Express Cafe and will feature sandwiches and salads. After the midday refreshments, more activities are planned. Grads may choose to visit the impressive Mackenzie Health Sciences Centre or to cheer on the Golden Bear football team as the Bears clash with their provincial rivals, the University of Calgary Dinosaurs.

Saturday's activities wind up with the Homecoming Dinner and Dance, being held at the downtown Convention Centre. Special activities at the function include the presentation of mementos to members of the Classes of 1926, 1936, and 1961 — the Diamond, Gold and Silver Classes, respectively.

On Sunday morning, grads are invited to gather in Athabasca Hall for an ecumenical Christian worship service. Later in the day, golfers will have the opportunity to tee up at Victoria Golf Course for Campus Recreation's annual Golf Tournament. An alumni category is featured and all grads participating will receive a free t-shirt. (Pre-registration is a must for this event.)

Another Sunday highlight is the brunch for the Gold and Diamond grads which will be hosted at University House by President and Mrs. Horowitz.

Homecoming may prove to be even more enjoyable if familiar faces are around. Grads wishing to organize reunions for Homecoming are invited to contact the Office of Alumni Affairs. The Office is willing to do the work — all that's required is your interest.

New Branches Join

THE ALUMNI ASSOCIATION HAS A NEW international branch — the second new international branch to be welcomed into the Association fold in the past four months.

In late November 1985, the Hong Kong Branch held its first event in conjunction with the Alumni Association, and in February of this year the

Kenya Branch, based in Nairobi, held its inaugural function.

The catalyst for the coming together of the Kenya grads was provided by the visit of a number of U of A grads to Kenya as part of the Association-sponsored East Africa Air Safari. Plans were made to have those alumni currently living in the Nairobi area meet with the visitors and the two groups met at the Nairobi Hilton Hotel on February 26, with 22 of the 27 alumni living in the Nairobi area in attendance.

Interest in forming a permanent branch was high, and the groundwork for such an organization has already begun.

Auction A Success

THE GRANDE PRAIRIE BRANCH WAS THE host of an innovative and successful event this year.

On March 7, the branch sponsored a Coffee House and Art Auction to raise money for a scholarship. Thirty-five pieces of art were donated by alumni for the event. Two talented singers provided the entertainment and, between musical sets, the pictures were auctioned. The tickets were virtually sold out and the branch realized a profit of \$1400, which will be invested in an endowment fund to support an annual scholarship tenable at the University of Alberta.

The branch executive plans to make this an annual event.

West Coast Meetings Held

THE ANNUAL MEETINGS OF THE VICTORIA and Vancouver branches were held on April 12 and 13, respectively. Once again, attendance figures at each event were high.

The Victoria branch, which held its meeting at the University of Victoria Faculty Club, hosted 80 members at its meeting. President Myer Horowitz was the guest speaker and he discussed the University's recent planning initiatives.

On Sunday, the Vancouver branch held its annual meeting and spring

VICTORIA

July 19, 1986

Family Summer Picnic

2:00 PM - 6:00 PM

Pacific Centre for Human Development

Located adjacent to Esquimalt Lagoon

Watch your mail for further details!

brunch at the Royal Vancouver Yacht Club. More than 150 members were in attendance. Again, Dr. Horowitz was the featured speaker, and the branch presented him a donation to the University Library in memory of the late Bill Begg, a former president and active member of the branch.

Another highlight of the Vancouver meeting was the selection of a new executive for the coming year. Dr. Dorothy Weijer-Tolmie, '61 MSc, was chosen as president, succeeding Audrey Dunlop, '49 BSc (HEc), who had just completed a highly successful two-year term. During her time in office, the branch set attendance records two years running and won the Burgess Trophy as the most active branch in 1984-85.

DAA Activities Planned

THE DENTAL ALUMNI ASSOCIATION WILL be part of the activities associated with the annual convention of the Alberta Dental Association which takes place July 30 to August 2, 1986.

The convention will be held in the Grande Centre-Cold Lake district this year. Among its many features are the exhibitors gala, a spouses program, a family program and a wide variety of recreation opportunities.

The Dental Alumni Association of the University of Alberta will be hosting its Annual Dinner in conjunction with the President's Ball. At the dinner, it will recognize the classes of 1936, 1946 and 1961. Another highlight will be the conferring of the DAA Outstanding Achievement Award.

MAA to Make Presentations

AGAIN THIS YEAR THE MEDICAL ALUMNI Association will make some special presentations at the Alberta Medical Association Convention.

The Annual MAA Dinner will be held during the convention. Scheduled for September 25 at the Westin Hotel in Edmonton, the dinner will

feature special presentations to the anniversary classes of '36, '46, and '61 and the announcement of the winner of the 1986 MAA Outstanding Achievement Award.

New Insurance Available

INSURANCE PROVIDING INCOME PROTECTION at attractive group rates will soon be available for University of Alberta alumni.

The Alumni Association has endorsed a term-life insurance plan since 1981. Participation in that program, which was especially designed for alumni, has grown steadily since the plan was introduced, and the total coverage in force now amounts to more than \$94 million. Obviously, members are finding the plan an attractive — and affordable — way to help meet their life insurance needs.

Encouraged by the success of this program, the Association has now endorsed an Income Protection Plan to help alumni protect themselves and their families from loss of income resulting from disability.

In giving its support to the plan, the Association considered that, while most alumni could probably manage a short-term disability without severe financial hardship, not many would have the resources to withstand months without income.

Under the Association-sponsored disability insurance program, an insured can receive up to \$3,500 per month if disabled and unable to work due to an accident or illness. The plan is flexible enough to suit almost any situation — protection may be purchased in varying amounts according to individual circumstances.

While many alumni are covered by employer income protection plans, others are self-employed or with companies that do not have such a program. For these people, coverage on an individual basis can mean substantial premiums. The Association's disability insurance plan offers protection at very competitive rates.

The program has been designed by First North American and will be ad-

ministered by its parent company, North American Life, manager of the Association's life insurance plan.

More information on this latest benefit from the Association will be available shortly. Alumni will be able to apply for term life insurance and/or the new disability insurance when they receive a special offer in the mail in June.

Alumni who are interested in knowing more about the plans before then are asked to contact their North American Life representative or to call North American Life toll free at 1-800-268-8182.

Don't Delay

ALUMNI INTERESTED IN TAKING PART IN the Association's 1986 travel program are advised not to delay — there's only one tour with openings remaining.

The period of August 7 to 18 represents your last opportunity to travel on an Association-sponsored tour in 1986. During this time, the *Alpine Passage — Glacier Express* tour will provide an intimate experience of Switzerland.

The passage begins in Geneva. From there it ventures to Montreaux at Lake Geneva for a three-night stay. Then its off to Zermatt, nestled near the foot of the mighty Matterhorn, for two evenings. The highlight of the tour comes next — a 155-mile train journey on the Glacier Express through some of the most beautiful scenery in the world, terminating in St. Moritz for two nights. Finally, travellers will have the opportunity to spend three nights in Lucerne in the very heart of historic Switzerland.

The *Côtes du Rhône* tour to France, scheduled for September 10 to 23, has already been sold out but interested alumni may have their names placed on the waiting list.

For further information about either tour, contact the Alumni Office. <

Copies of the Alumni Association's 1985-86 Annual Report are available from the Alumni Office.

Miscellany

Safari Provides Glimpses of African Life

Among the University of Alberta alumni who took part in the East African Air Safari sponsored by the Alumni Association this spring was Dr. Albert Caldwell, '41 MD, of Viking, Alberta. The following are some of his observations.

WE WENT TO KENYA TO SEE THE ANIMALS of Africa, and animals we saw — many on all of our game drives. The countryside is just alive with herds of animals: gazelles, wildebeast, oryx, jackal, giraffes, elephants, impala, topi, two kinds of zebra, cheetahs, leopards, and a great many lions.

Perhaps we felt closest to the animals at the Governor's Tented Camps. There is no electrical power at the Camps — we used only lanterns — and it is in the open game reserve — no fences. (Modern bathrooms there were, however!) We could not go from the dining tent to our individual tents at night without a porter who carried a spear. We were told that there have been hyenas, rhinoceros and monkeys in camp, and returning home one night we saw "Windy", a well-known elephant just a few feet off our path.

We saw more than animals, however. Our East Africa Air Safari also gave us glimpses of ways of life different — in some cases, very different — from our own.

Nairobi, the capital of Kenya, is a very busy city, with a population of about 1,000,000. Traffic was very busy — many traffic jams — mostly from buses, vans, and taxis. There are not as many private cars as in North America. The people seemed very friendly and quite happy. The police were on foot patrol — I saw no patrol cars — and carried no firearms but were armed with billies.

Irene, one of our native instructors, told us that there are many plain-clothes policemen among the crowds, and they do carry guns. If an individual is caught stealing, the plain-clothes policemen are authorized to

shoot the criminal in the leg. There is also a system of "mob justice" — people will gang up on persons caught stealing, beat them and even kill them. The government is trying to discourage and control this system.

Kenya is about half the size of Alberta with a population of 20 million. It is a republic, but belongs to the Commonwealth of Nations. It has done away with the jury system of justice, but three judges are present in any serious case. English and Swahili are compulsory languages in the schools, which is intended to ensure that there will be common languages of communication rather than many tribal dialects. The government will put four children per family through school and university free, but parents must bear all the expenses for fifth and subsequent children. However, men are allowed to marry as many wives as they can afford, and the government will educate four children per wife.

Once, while out driving in the country, we commented on the number of people walking beside the roads. Irene said they once had a bicycle factory, but it went bankrupt as people preferred to walk.

At Mayer's Ranch, approximately 30 miles outside Nairobi, we saw a Masai village and the warriors danced for us. This consisted mainly of their jumping up and down accompanied by grunting noises.

The Masai have a very interesting culture. About every seven years, when enough boys have been born to make it worthwhile, the boys are circumcised. When this occurs the whole society moves up a notch: the newly circumcised become junior warriors, the previous junior warriors become senior warriors, the former senior warriors become junior elders, the recent junior elders move up to senior elders, and the old senior elders retire.

The male Masai can't marry until he becomes a junior elder (at approximately age 28) and then can marry any girl 14 years or older. The girls are circumcised before marriage. The men can't own property, such as cows and goats, until they become senior elders. They live in mud houses shaped like a loaf of bread with only one door and

no windows or chimneys. The framework of the house is made with bush and sticks and these are plastered over with a mixture of mud and cow dung. The village is circled by a wall of thorn bushes to keep the animals out. During the day, one or two openings are made in the wall to allow access to the countryside, but at night these openings are closed.

The Masai warriors smear their hair with the red soil of Africa and allow it to grow long, giving their hair, which looks wet and greasy, a red tinge. The diet of the warriors consists almost solely of milk and blood obtained from bleeding their cows. Only very rarely do they kill a cow and eat meat — and then they eat it all in one sitting. The women drink goats' milk as they have large herds of cows and goats. This type of diet keeps the Masai thin. You see no fat Masai.

The Masai are semi-nomadic and, for religious reasons, do not till the ground. They all seemed to speak English, and since we saw few school-age children, we assumed that most were away at school being educated by the Kenyan government.

During our tour, we had a party for Kenyan U of A graduates. There were more than 20 present, and they all spoke well of Alberta. One man told me that he was going to send his children to the U of A, even though they have a University of Nairobi. All the Kenyan grads seemed happy and successful and glad to see us. All in all it was an enjoyable party, and the whole trip will be a pleasant memory for those of us who came from Alberta. A very satisfactory adventure. <

Kudos to Medicine's Class of 1946.

This fall the class will be holding its ninth reunion since graduation. That's exactly one every five years since they left the University of Alberta. On top of that, it achieves an average turnout of 60 to 90 per cent each time. We think that's a record. If any other class has done better — let us know and we'll publish your results. <



Dr. Horowitz announces "A Plan for the Future." By his side are Associate V-P Amy Zelmer and V-P (Admin) Allan Warrack; behind are Deans Patterson (l.) and Bachynsky (r.).

"This is an important day for us."

With those words University of Alberta President Myer Horowitz made public a document that could prove to be the blueprint for the University's future.

The day was March 13 and President Horowitz was addressing a news conference being held in the University Hall council chambers of General Faculties Council. In their hands the assembled members of the media each held a 40-page booklet entitled *The Next Decade and Beyond: A Plan for the Future*, which is the distillation of a comprehensive planning initiative launched in 1983.

At the news conference, President Horowitz took pains not only to outline what the plan is, but to indicate what it is not. It is not final; the University has begun circulating "the Plan" widely, on campus and off, and is inviting comments.

"We are entirely sincere in wanting to hear from individuals and groups," the President told the media representatives. In late 1986, the views expressed are to be incorporated into a new series of policy statements. After debate within the University, these will culminate in new policy directions.

The Plan is not a call for a radical departure from the University's tradition, said the President: "Perhaps the most 'radical' aspect of the Plan is that it does not call for any major departures from the University's historic development."

On the other hand, the Plan is not simply a collection of generalities and platitudes, said Dr. Horowitz: "We do push ourselves off the fence."

The following passages have been abstracted verbatim from the planning document and contain all of the explicit recommendations contained in the report.

The public will have the opportunity to comment on the University's plans for its future at a number of public meetings which have been scheduled for various Alberta centres. These include Calgary (May 20), Lethbridge (May 21), Medicine Hat (May 27), Edmonton (May 28), Fort McMurray (June 9), Grande Prairie (June 10) and Red Deer (June 19).

For further information about the public meetings, or to obtain copies of the planning document or of the reports issued by the various planning groups, contact the University's Office of Public Affairs, 432-2325.

The Next Decade and Beyond: A Plan for the Future

Background

Goal of the University

PLANNING IS ESSENTIAL FOR EVERY ORGANIZATION; UNIVERSITIES are no exception. As an institution, the University of Alberta must take charge of its future and shape it according to a deliberate and conscious strategy — a strategy derived from our best judgement of what it is that we, individually and collectively, want to be and to do.

The University has been undergoing significant changes during the past few years.

- In 1985-86 enrolment reached its highest level ever.
- The growth in enrolment has been unevenly distributed among the 16 teaching Faculties and 88 departments which currently compose the University.
- New research in many fields has created new opportunities for and demands upon the University.
- Changes in society's expectations are leading the University to develop new programs and to re-examine personnel and student policies.
- At the same time, this University has been facing increased budget pressures.

In response to these changes and challenges, the University launched an ambitious and comprehensive planning effort in 1983. Four planning groups were established to co-ordinate the activities (Groups on University Capabilities and Capacities, Computing, Graduate Studies, and Program Initiatives). Each group was chaired by a dean and each had a cross section of membership drawn from the faculty, students, and public members of the Board of Governors. In all, more than 50 individuals were involved.

General Principles

Changes and Challenges

The goal of the University of Alberta is the achievement of excellence: excellence in scholarship and research,

excellence in teaching and learning, and excellence in service to society. In the pursuit of this goal the University should aim to be numbered among the best universities in the world and should use international standards to measure success. We can build on the strength of our top scholars, a number of whom already have achieved international levels of excellence.

The key role of scholarship and research at the University must be emphasized. Without an internationally-recognized level of excellence in the pursuit and preservation of knowledge, the University cannot achieve its potential in contributing to the creation of new knowledge, or in applying that knowledge to benefit society.

Excellence in teaching produces inquiring and critical minds and is dependent upon excellence in scholarship and research. Graduates should not only have acquired a store of factual information, but also have developed an understanding and appreciation of our culture and others, past and present. They should have a commitment to lifelong education. Access to the University should be based primarily on academic rather than other qualifications.

Excellence in the creation and application of knowledge is essential to the strength and vigor of our society. No less important are the educational opportunities which a strong university can provide for the people of Alberta. Extension courses, non-credit professional development programs, testing services, library services, contract research, and guest speakers are only examples of the ways in which the University has attempted to respond to community requests. We should co-operate with other educational institutions to minimize duplication and ensure that those programs we offer are both needed and supported.

Program Priorities

Graduate Study and Research

The University of Alberta is the major research centre in Alberta. It has a responsibility to develop a major graduate program in a broad range of areas as part of its function to advance knowledge through research. This priority is ranked first because of the University's unique and fundamental role as an educational institution. The proportion of full-time students at the University who are graduate students has remained relatively stable at about 10 per cent. As early as 1924, the proportion of graduate students was 8 per cent. As the University continues to receive a smaller proportion of the total number of students in post-secondary education due to the opening and growth of new colleges, technical institutes and universities, there is an opportunity to focus on the development of graduate programs. This would enable the University to concentrate on a role that it can perform better than the other institutions and to decrease the emphasis on programs that are taught in several institutions.

Development of strong doctoral programs in areas of excellence is the foundation of the University's research

policy. A goal of 20 per cent graduate students may be reasonable over a 15-year period. The proportion of graduate students in non-thesis programs is now 50 per cent and this is seen to be too high.

Recommendations

- ☐ Program areas should be reviewed to identify those which should develop strong PhD programs.
- ☐ The number of graduate students in thesis programs should be increased over the next 15 years to correspond with decreases in the number of undergraduate students.

Liberal Education

The University of Alberta, as the leading provincial institution in the humanities and social sciences, must maintain its leadership in scholarly research and teaching. The pre-eminence of the University of Alberta as a place for scholarly work in the humanities and social sciences contributes substantially to the over-all level of instruction and learning. It is important not only that students learn subject matter in these areas, but also that they are exposed to leading thinkers. In this way, they will have an opportunity to see the breadth of these fields and their contribution to civilization. The exposure of students to the many facets of a liberal education will enable them to adapt better to an age of technology and its social problems.

Recommendations

- ☐ All students receiving an undergraduate degree from the University of Alberta should have the elements of a core curriculum designed to provide the basis of a liberal education.
- ☐ Teaching in the core curriculum should be performed by academic staff. Graduate students should have a role in tutorial sessions.
- ☐ Pre-professional programs should contain a core of science and humanities courses designed to provide a liberal education.
- ☐ Professional programs without a pre-professional year should include a core of science and non-science courses which provide elements of a liberal education.

Regional Responsibilities

The University of Alberta has a particular responsibility to the Northern communities owing to its location and its research base. Priority should be given to program initiatives that help meet the needs of these groups. Most universities are based inevitably on their regional community from which they draw the bulk of their students and which they in turn serve. Students from the northern part of the Province and the Territories look first to the University of Alberta as the place to enrol in a University program. This is an accepted role for the University and one that should continue. To fulfill this responsibility, a broad range of programs will have to be continued for the near future with a gradual devolution of initial instruction to community colleges.

Of particular relevance to Alberta, Western Canada,

and the North is our dependence on agriculture and energy and the transportation facilities needed to move our products to market. All of these require a high degree of research and technology to make them economically viable. Research on Northern problems is an area of responsibility that should continue to be emphasized.

Recommendations

- ☐ Research studies and doctoral programs in areas of agriculture, forestry, energy, and transportation are to be encouraged and supported at the University.
- ☐ Initial post-secondary instruction for high school graduates other than direct entry to the University of Alberta should be arranged in consultation with community colleges in Edmonton and Northern Alberta.
- ☐ Academic groups with a research focus on environmental studies in Northwestern Canada should be identified and expanded in keeping with the importance of this field.
- ☐ Suitable undergraduate and continuing education programs should be established to meet the needs of the Francophone population of Alberta.

Professional Programs

The University has a long-standing commitment to education for the professions and this is recognized as a priority area. Since their inception, the professional Faculties at the University have been a major focus. There is a continuing obligation to provide graduates to meet regional needs and this will often increase the priority accorded to a particular program.

The professional programs should continue to have high standards that are representative of the better programs in North America. Programs (such as Nursing) should be improved and enrolment increased with the aim of having only university graduates as professional practitioners in Alberta.

Recommendations

- ☐ There should be sufficient graduates of professional programs, both undergraduate and graduate, to meet the Province's and, in some cases, regional requirements.
- ☐ Program standards should be established which will be recognized as high in relation to professional programs in North America.

International Initiatives

The University of Alberta, as a leading Canadian university, has a responsibility to be involved in international programs, particularly those that flow from its current activities and from the needs of the community. This is a function that other Alberta universities may not be as well equipped to fulfill. University staff have been actively involved in projects in developing countries through various international development agencies and the University has established funds to initiate development projects and to provide scholarships for students from developing countries. In the research area, there are

U of A campus circa 1924



a large number of international collaborative projects and some staff conduct research in other countries. With the increasing economic interaction between Alberta and countries of the Pacific Rim, there is an expectation that the University will provide the technological and intellectual base for this.

Recommendations

- ☐ The University should develop an Institute for International Affairs in co-operation with the Government of Alberta to increase the number of links to Pacific Rim countries and to encourage the exchange of staff and students.
- ☐ Programs in East Asian studies should be established to augment those which already exist, including such areas as business, political science, economics, and geography.

Ways and Means

Accessibility

University education should be accessible to all those who have the ability and the interest to undertake such study. Programs to meet the needs of groups whose access to higher education has been restricted by age, employment, social and economic status, or location have been established through the use of new methods and new organizations such as consortia. The University has participated to some extent in these new approaches but could do much more to meet the needs of persons seeking entry after spending time in the work force.

Recommendations

- ☐ Liaison with other Alberta post-secondary institutions should be increased so that the unique resources of the University of Alberta are available to assist in making instruction more available in the province.
- ☐ More vigorous dissemination of information about ACCESS and other systems to improve outreach available to Faculties should be initiated.

- ☐ Residency requirements in professional and graduate programs should be reviewed. They should be maintained only where there is strong evidence that they serve an academic function.
- ☐ Specialized facilities on the campus should be made available regularly to interested groups for continuing professional education.
- ☐ Continuing education should be an acceptable teaching responsibility for the University.



U of A campus circa 1955

Innovative Instruction

The University of Alberta recognizes the need for more innovative methods of instruction as a mechanism for improving learning, and states this as a priority for program development. Rapid changes have taken place in educational systems. As these changes occur in secondary schools an adaptive response is required of the University, particularly with response to technological changes. The University of Alberta has already made a strong commitment to technology through its support of computer-assisted instruction. Any mode of instruction that will improve learning, provide better cost-effectiveness, or improve accessibility should also be considered; for example, co-operative programs, experiential programs, or travel for cultural knowledge.

The growth of industries that are based on knowledge systems, such as computer companies, biotechnology firms, communications firms, and the military-space industry, has changed the position of universities. Innovative ways to collaborate with these industrial sectors in teaching and research while maintaining academic standards and integrity will be needed.

Recommendations

- ☐ A goal to make all University of Alberta students familiar with the use of computers should be adopted and this instruction should be integrated, where appropriate, into the core curriculum.
- ☐ Library services should be adapted to computerized literature searches, and computer-assisted learning programs should be initiated in more subject areas.
- ☐ The development of experiential courses should be encouraged.

Information Technology

The University should determine which specialized computing capabilities it must maintain and develop for strategic reasons and which it can best acquire from other organizations. Emphasis must be put upon the development of services and facilities in which the University has a natural competitive advantage.

Recommendations

- ☐ That, in its general planning, the University recognize excellence in computing as a critical success factor.
- ☐ That decision-makers at all levels in the University be encouraged to examine, within their disciplines or areas of responsibility, the following factors:
 - the requirements for student use of computers including the application of computers within existing courses, needs for courses concentrating on computer science and technology, and the possible use of computer-assisted instruction;
 - the needs of University staff for training programs or assistance in the use of computers;
 - the establishment of appropriate administrative mechanisms to deal with computer planning matters;
 - the acquisition of appropriate equipment, software and services to meet the computing needs of staff members and students;
 - the potential for productivity gains through the application of computer technology.
- ☐ The University's priorities for computing facilities and services should be in the order of research/teaching, administration, and individual student use.
- ☐ In view of the close relationship between teacher training and the computing skills of students, the University must recognize and act upon its special leadership and co-ordination roles in development of academic programs in computing generally, and in support of the instructional functions. Appropriate University staff members should be actively involved in program development activities related to computing courses and activities in Alberta schools. The University has a special leadership role to play in translating, adapting and demonstrating the application of advanced computing techniques to increase the quality and effectiveness of instruction at all levels and in all sectors of education in Alberta.
- ☐ In general planning, the University should seek to exploit its relative advantage in computing, attract scholars in computer-related fields, and at least maintain its excellence in information technology.
- ☐ The University should seek to be a leader in the research and development of knowledge systems and fifth generation technology. These new areas of research and technology will clearly dictate the thrust of computers and computing technology in the next decade and beyond. Examples of these areas are artificial intelligence, parallel processing, Very Large Scale Integration (VLSI) microchips, knowledge and database design, software engineering and robotics.
- ☐ A University computer literacy program (over three to five years) should be developed immediately to provide courses and staff and student instructors for administrative, academic, and non-academic staff. An increased emphasis on the development of the computer skills of students should be encouraged, and



this will be assisted by an improvement in the staff's level of computer literacy.

- ☐ *A campus-wide program should be developed to examine the uses of computer-based instruction teaching methods in all departments and centralized resources should be provided to sustain this program. This should be considered as a significant academic priority.*

External Interests

The University of Alberta should give priority to initiatives where there is evidence of strong support by special interest groups in the community for a program, provided that the aims of the program are in keeping with the aims of the University as a whole.

Recommendation

- ☐ *University alumni and members of Senate should be offered more opportunities to become involved in activities and planning in the University in order to obtain their support and guidance.*

Use of Existing Physical Facilities

The University of Alberta has a large investment in physical facilities. Programs that make better use of the existing facilities or use the facilities to reduce their funding needs should be given preference. Currently, University facilities are not fully used throughout the year. In the summer, most teaching space is available and the support facilities are under-used.

Recommendations

- ☐ *The University should give serious consideration to the*

establishment of a trimester system.

- ☐ *University facilities should be available during weekends, evenings, and the summer to University and other groups.*

Priorities and Future Planning

Priorities Based on Funding

The University will give a priority to those programs that have less need for new funds or that are funded through other mechanisms. Programs that have been able to obtain new funding rather than requiring the redistribution of existing resources have always been looked on in a favorable light. In the past, new funding has usually been from the traditional source, Alberta Advanced Education. This policy is to be continued, but in the absence of specific government funding for new programs, other sources will have to be found.

Future Planning

The University expects to involve people at many levels not only in the implementation of the plan but also in future planning. Members of the University community — the staff, Board and Senate members, and students — will play a major role.

It is the University's intention also to establish an on-going planning mechanism which will both review progress on this plan and develop continuing revisions to meet future challenges. <

Class Notes

'29 ERNEST G. TYSON, BSc(Ag), writes from Yuma, Arizona that he winters in the same trailer park as two other former U of A students, E.R. LEWIS, '29 BSc(Ag), and RUSSELL PATRICK. "We all return in time for Income Tax," he says.

'30 ELSIE PARK GOWAN (YOUNG), BA, '82 LLD(Honorary), is teaching classes in creative writing to senior citizens at two Edmonton centres.

'34 PHYLLIS STEELE (McLELLAN), '34 MD, has retired in Balcarres, Saskatchewan, where she practiced since 1939. "Memories of my years in training and my professors and classmates will always be dear to me," she writes.

'35 JOHN CALHOUN, BSc, and JEAN FETTES CALHOUN, Dip(Ed), '34 BA, are retired in Sarasota, Florida.

'36 CARL NAVALKOWSKY, BSc(Pharm), is now living in Prince Albert, Saskatchewan, where he works part-time in a dispensary and enjoys a lot of golf and curling. MAX MARTYN, BA, who is a retired RCAF air vice marshal, and his wife have recently moved from their farm in the Rideau Valley to a new townhouse in Kingston, Ontario. Their new

home is in the city's inner harbor on the site of Count Frontenac's landing in 1673. "The history major has finally paid off!" he writes.

'39 ROSE DYSON, BSc(Ag), '41 MSc, retired in 1977 after 35 years of service with the National Research Council. Residing in Ottawa, she keeps busy with a bit of contract work for IDRC, church work, and a number of hobbies.

'40 HORACE MEECH, BComm, was honored with an appointment as a member of the Order of Canada in March 1985, and in August 1985 retired and moved to Delta, B.C.

GRACE ANDERSON (EGLESTON) (WILLIAMSON), BA, retired from teaching at Glenrose School in 1978 and was remarried in 1982.

'41 GEORGE CUMMINGS, BSc(Eng), entered the construction business in Ontario after his wartime service. In 1980 he retired and opened up a consulting practice, "which gives my wife and I ample time for leisure — enjoying our grandchildren." He's planning a visit to the West this summer, as far as the West Coast "and of course Edmonton."

'42 HERBERT B. MILLER, BSc(Eng), after 38-plus years of service with UOP Inc. of Des Plaines, Illinois, is currently in a period of enhanced severance with that company leading up to his formal retirement in 1987. Most recently he was its director, field operating services. He plans to maintain his primary residence in Garrington Hills, Illinois but hopes to find a warmer winter location, Florida being most likely.

'43 HAROLD PERGAMIT, BSc, who now lives in Menlo Park, California, recently travelled to Israel, Jordan, Syria and Egypt on a fact-finding mission under the auspices of the World Affairs Council. That was followed by a safari in Kenya, and this year he's planning visits to Spain, Portugal and Morocco and to the Far East.

ROBERT H. BETTS, MSc, '42 BSc, has retired from the department of chemistry at the University of Manitoba and is spending a few months in Oxford, England.

'45 LIZ PHELPS (CAMPBELL), BSc(HEC), of Ithaca, New York reports that she survived a cerebral hemorrhage in 1984. Now retired, she cherishes the warm friendship of the staff and children of a daycare where she is a volunteer surrogate grandma. She looks forward to the fall, when her own daughter will transfer to Cornell University in Ithaca.

'46 TYMEN E. HOFMAN, BSc(Ag), is the author of *The Strength of Their Years*, the story of a pioneer community, published by Guardian Publishing of Ontario.

'48 WILLIAM D. MACLEOD, BSc, retired from Western Co-operative Fertilizers in 1983 and now enjoys his work in Riverview United Church in Calgary and extensive travel in

Canada and the U.S.A.

ROY SPACKMAN, MD, has been named president of the Cardston, Alberta Temple of the Church of Jesus Christ of Latter Day Saints.

'49 LLOYD D. MACLEAN, MD, became an officer of the Order of Canada in 1985. He has been surgeon-in-chief of the Royal Victoria Hospital, Montreal, and professor of surgery, McGill University for the past 24 years. The Order of Canada award was made for his encouragement of the development of surgical research in Canada.

BILL EVANS, BSc(Ag), '54 MSc, recently retired from the Ontario Agricultural College in Guelph.

'51 GORDON BOWMAN, BSc(Eng), has been elected a director of Ranger Oil Limited and been appointed president and chief operating officer of the company, which he has served in a managerial capacity in London, England since 1975. He currently resides in London as managing director of Ranger's wholly-owned subsidiary, Ranger Oil (U.K.) Limited.

IRENE LECKIE, Dip(Nu), former dean of Nursing at the University of New Brunswick, remains active in community concerns in Fredericton, N.B. Recently she was elected president of Transition House, a refuge for battered women.

'52 NEIL STEWART, BA, has been appointed vice-president, supply and marketing by Amoco Canada Petroleum Company Ltd.

'53 RON SOUTHERN, BSc, and his wife Margaret Southern (Visser), BPE, were recently chosen the 1986 Sportspersons of the Year by the Calgary Booster Club. The Southerns are known for their involvement with Spruce Meadows, the world class horse jumping facility they built near Calgary 10 years ago.

ARTHUR L. HARRIS, MD, after five years as head of the emergency/outpatients department at Saskatoon City Hospital, has retired to his acreage home near Saskatoon to enjoy gardening, woodworking, photography and his horses.

THOMAS J. WALSH, LLB, of Calgary recently was one of four recipients of the Premier's Awards for Service in recognition of the countless hours he has devoted to community organizations. In the '60s he served as a director of the Calgary United Fund and the Family Services Bureau; in the '70s he was a director of the Fort Calgary Preservation Society and the Calgary Tourist and Convention Bureau, and was general chairman of the Calgary centennial celebrations. He is currently the founding chairman of the Calgary Parks Foundation and serves on the University of Alberta Senate. STEVE SKUBA, BEd, '71 Dip(Ed), retired from school superintendency in 1980 after 35 years of service as teacher, principal, assistant superintendent and superintendent of the Bonnyville School Division in Alberta. Now an employment counsellor in the Bonnyville Office of Alberta Social Services and Community Health,

The Alumni Golden Jubilee Award

Each year the Alumni Association of the University of Alberta presents the *Alumni Golden Jubilee Award* to an individual who has made a significant contribution to the University of Alberta. That individual need not be an alumnus or alumna of the University.

Nominations are now being accepted for the 1986 *Alumni Golden Jubilee Award*, which is to be presented during the ceremonies of Fall Convocation 1986.

Nominations should be made in writing and addressed to:

Alumni Golden Jubilee Award
Office of Alumni Affairs
430 Athabasca Hall
University of Alberta
Edmonton T6G 2E8

The deadline for nominations is August 15, 1986.

he recently spent time in Uganda, first as a teacher-advisor and later as one of three Canadian educators offering a short course in educational administration.

EVELYN I. BIRD, BEd, lives in Guelph, Ontario, where she is a faculty member in the School of Human Biology and director, Relaxation and Biofeedback Research/Therapy Clinic.

'54 ED WACHOWICH, LLB, '53 BA, was recently named an Alberta provincial court judge.

ELIZABETH MORRIS, BEd, has published a cookbook, *Prairie Cooking Past and Present*, which the *Lethbridge Herald* says gives a sense of the Prairies that a history book probably never could.

RONALD EARL JORDAN, DDS, professor of restorative dentistry and associate dean, clinical affairs of the Faculty of Dentistry at the University of Western Ontario, was the recipient of the 1986 International Award of the Friends of the University of Connecticut School of Dental Medicine.

'55 ARTHUR O. JORGENSEN, BEd, '61 BA, retired from teaching in 1985 after 36 years in the classroom. He and his wife are currently in Jamaica, where he has an 18-month contract with the Inter-American Development Bank to revise the primary math program and provide inservice to a core of teachers.

'59 MIKE J. WITWICKI, BEd, is now a hypnotherapist and operates A-1 Self Development Clinic in Edmonton.

'60 WALTER WANGERIN, PhD, who was principal of Concordia College, Edmonton in the late '50s, has been associated with education projects around the world since 1968. From 1976 to 1981 he and his wife were education missionaries in South East Asia, with a residence in Hong Kong. Since then, they have returned to Asia a number of times, serving for three to six months at a time. They make their permanent home in Cañon City, Colorado.

ISABEL A. GARDEN, BEd, '58 Dip(Ed), after 10 years spent teaching in Grand Centre and Lloydminster in Alberta, has left teaching to help in her husband's business and raise two teenage daughters.

RALPH PETTIBONE, BEd, '57 Dip Ed, '68 BA, and JOY PETTIBONE, '68 BEd, are now retired in Red Deer, Alberta after having collectively contributed 59 years to teaching and school administration. They're now finding more time to "enjoy the family, garden, sew, read, travel, and empty the job jar," and for community and church affairs.

'61 GORDON R. SCOTT, BSc(Eng), '65 MSc, has been named manager in charge of natural gas liquids and sulphur marketing by Amoco Canada Petroleum Company Ltd.

'62 ANNETTE POTVIN, BEd, the co-ordinator of the Bible program for the diocese of St. Paul, Alberta, is spending a sabbatical leave in

Ottawa. Sister Annette has produced guide books for most of the New Testament.

ALLAN F. KIERNAN, BSc(Eng), has been appointed vice-president, production, by Chieftan Development Company.

'63 JACK NOONAN, BSc(Eng), after 25 years in the metals industry in northern Ontario, opted for a career change and is now serving in the newly-created position of executive director of the occupational health and safety division of the Nova Scotia department of labour.

WALTER C. HARRISON, BSc(Eng), has returned to the Whiteshell Nuclear Research Establishment of Atomic Energy Canada from the national uranium tailings program at EMR-Ottawa. He has been appointed manager of the technical services division, responsible for computing, design engineering, analytical science, and operations of major facilities.

'64 DON HAMILTON, BA, has been elected president of Edmonton Northlands. He is the president of his own company, Nordic Neon Graphics Ltd.

'65 RON RHINE, MEd, '49 BEd, who retired from teaching in 1983, has been elected to the Yellowhead Regional Planning Commission, representing 17 summer villages. The treasurer of the Alberta Retired Teachers' Association, he is active on many committees and serves on the council of the summer village of Lakeview, Wabumun Lake.

TED THRESHER, BSc, '67 BEd, '83 MA, after 15 years teaching physical education, has returned to his first love and is now head of the math department at Jasper Place Composite High School in Edmonton.

DONNA SPAULDING (DEMPSEY), BSc(Nu), '64 Dip(Nu), has been granted tenure as an instructor in the diploma nursing program at Mount Royal College, Calgary.

JIM SIDE, BComm, has been appointed managing director of Australian Sheepskin Products, Northam, Western Australia.

'66 MAURINE K. MASLIN, BEd, '80 BA, '84 MEd, taught for 20 years with the Edmonton Public School Board. She moved to Calgary last summer and is considering a career change.

KIT MCRAE, BSc(Nu), '65 Dip(Nu), an in-

In Memoriam

The Alumni Association extends its condolences to the families and friends of the following:

JOHN THOMAS JONES '22 BA, '26 MA
February 1986/Edmonton
IONA ESTELLE KELLY (McLAUGHLIN)
'23 BSc(HEC) 1986
JOHN JAMES SAUCIER '24 BA, '26 LLB
January 1986/Palm Desert, California
FRANK LAW '25 MD March
1986/Edmonton
GEORGE ALLEN MAIL '25 BSc(Ag) March
1986
ANDREW MURRAY REVELL '26 BSc, '29
DDS February 1986
CECIL R. MACDONALD HOLMES '27
BSc(Ag) March 1986/Edmonton
EARDLEY SAMUEL ALLIN '27 BSc February
1986/Victoria
WILLIAM SEYMOUR ARCHIBALD '28 BA
February 1986
THOMAS VERNON NEWLOVE '31 BSc, '59
BEd October 1985/Victoria, B.C.
ROBERT CHARLES ROSE '32 BSc(Ag), '34
MSc December 1985/Atlanta, Georgia
ALLAN GEORGE ROBERTSON '35 BSc(Eng)
September 1985/Trail, B.C.
MARION IRENE TIESSEN (DOAN) '38 BA,
'51 BEd February 1986
MURIEL ALBERTA CALLFUS (ROSE) '39 BA
January 1986/Edmonton
JOAN ELEANOR GORTON (ORMOD) '41
Dip(Nu), '66 BSc(Nu) February 1986
JAMES JOHN ANDERSON '41 MD March
1986
RICHMOND FRANCIS L. HANNA '41 BA
January 1986/Victoria, B.C.
JOHN JOSEPH LUKENCHUK '45 BSc
February 1986
EMERIC ONIL DROUIN '46 BEd February
1986

ERIC JOHN HANSON '46 MA December
1985
THOMAS ALLISON TARIO '49/BEd
January 1986
JOSEPH NEIL MCCALLUM '49 BEd
January 1986
GORDON JEROME OLSTAD '49 BSc(Eng)
December 1985
ROBERT MILLER PHILLIPS '49 BSc(Ag)
October 1985
VERNON NORVILLE GRUNDBERG '50
BSc(Ag) March 1986
JOHN MASSEY HENRY '50 BSc(Eng)
August 1985
BERTHA ALEXANDRA McLEAN (GRANT)
'53 BEd February 1986/Edmonton
MELVIN RUDOLPH BAKKEN '53 BEd, '66
MEd March 1986
HERBERT WILLIAM STRETTON '54 BEd
December 1985
ELIZABETH LEES GIBSON '54 Dip(Nu)
December 1985/Calgary
ROBERT JOSEPH ZWACK '60 BSc(Eng)
March 1986
KENNETH HARVEY PAULS '61 BSc(Eng)
February 1986
LAWRENCE WILLIAM COPITHORNE '62
BSc(Ag) February 1986/Calgary
CHARLES ROSS FORD '63 LLD(Honorary)
September 1985/Victoria, B.C.
BRIAN RENE GLAUSER '66 BSc, '71 MD
February 1986
REGINALD GORDON PRETTY '67 BEd
January 1986/Edmonton
THERESE LAURENTIA PERRAS '68 BEd
January 1986/Edmonton
ROBERT EDMUND KELLY '71 BA, '72 BEd
March 1986/Mexico
THOMAS CLEMENT DOUGLAS '76
LLD(Honorary) February 1986/Ottawa
GRETTON MICHAEL SWAN '79
BSc(Forest) February 1986/Whitecourt,
Alberta
ALAN JAMES DEANE '81 BSc, '83 DDS
March 1986

structor of nursing at Mount Royal College in Calgary, was recently granted tenure.

GORDON WILLANS, MD, '62 BA, is chief of medicine at Duffin Area Hospital in Ontario. This spring, Dr. Willans served as local chairman for the Heart Fund.

'67 FRED CASTLE, BA, recently became assistant advertising director, retail for *The Edmonton Journal*.

ROBERT REID, BSc(Eng), is currently product manager — terminals for Novatel Communications Ltd.

'68 STANLEY MANNERFELDT, BEd, '74 Dip (Ed), of Edmonton is self-employed in electronics, doing repair work and some sales.

ALAN M SMYTH, BA, has been appointed manager of the newly-established Edmonton Metro Life Branch of Prudential Assurance. PHIL PONTING, BComm, an Edmonton lawyer, has been named a federal Queen's Counsel. RON KIRSTEIN, BPE, is instructing in the recreation leadership program at Comosun College in Victoria, B.C. Previously, he was the U of A's aquatic director for 11 years.

'69 MARCIA BECKNER (PARSONS), '69 BA, and JIM BECKNER, '68 BSc, now live in Salmon Arm, B.C., where he has established an optometry practice. Jim is the current president of the B.C. Association of Optometrists. While Jim was engaged in his optometry studies at the University of Waterloo, Marcia obtained teaching certification and taught for two years. Now she substitute teaches some and looks after their two sons.

JEAN THOMAS, BSc(HEC), is executive assistant to the chief commissioner of the Canadian Human Rights Commission.

'70 RICHARD FILGATE, BSc(Eng), has been appointed area superintendent of the Edmonton production area of Chevron Canada Resources.

J. MAHENDER REDDY, PhD, is chairman of the department of economics at Osmania University in Hyderabad India. He recently spent four months at Carleton University, Ottawa.

AHMED SALAMA, PhD, '68 MSc, is now a research scientist with the Canada Centre for Mineral and Energy Technology of the federal department of energy, mines and resources.

GARY KERR, BComm, was recently appointed vice-president of marketing — grocery products by Kraft Limited.

GEORGE N. MARSHALL, '70 MEd, retired as a high school principal in 1984 after 41 years of teaching and is now an honorary lecturer in education at the University of Waikato, Hamilton, New Zealand.

'71 DONNA YURKIWSKY, BA, resides in Toronto, where she is audit manager for a chartered accounting firm. ROD ADACHI, BA, is employed as a community consultant for the cultural heritage division, Alberta Culture, Central Alberta Region.

MAGDY W. MIKHAIL, MSc, is employed by the Canada department of energy, mines and re-

sources in their Western Research Laboratory in Edmonton.

DONALD R. STRONG, BComm, is audit manager of Arctic Co-operatives Limited, which recently relocated to Winnipeg from Yellowknife.

TAKO KONING, BSc, and HENRIETTA DYKINK-KONING, '78 BA, are returning to Calgary after having lived for the past six years in the jungles of Central Sumatra, where Tako was senior oil exploration geologist for PT Caltex Pacific Indonesia.

FRANCES WILLIAMS (FOGA), Dip(OT), is living on a hobby farm in Duncan, B.C. and is an occupational therapist at Gorge Road Hospital, Victoria. Fran is responsible for the work capacity evaluation program initiated there in 1984.

FRED DUMONT, MEd, '61 BEd, who is the president of the Alberta Vocational Centre, High Prairie and in his sixteenth year as the mayor of High Prairie, received the Order of Canada in October 1985.

CLAIRE R. JACOBSEN, BMus, '67 BA, '65 BSc (MedLabSci), is supervisor of medical transcription at Misericordia Hospital Edmonton. Active outside the hospital, she is a finance officer with the Loyal Edmonton Regiment, enjoys racquetball, and plays in two bands.

TERRY A. O'FARRELL, MD, '69 BSc, was recently inducted as a fellow of the American Academy of Orthopaedic Surgeons.

LYNNE PEARSON, MA, is director general of the Saskatchewan region of Employment and Immigration Canada.

MARILYN WILL, BSc(Nu), '68 Dip(Nu), an instructor in the allied health department of Calgary's Mount Royal College, was recently granted tenure.

HAROLD MEDD, BSc(Eng), '72 MEng, has been named a vice-president of the engineering services firm Reid Crowther.

'72 PRADYOT CHATTERJI, PhD, is now the manager of the Edmonton office of Thurber Consultants Ltd., a geotechnical consulting engineering firm.

DOROTHY A. HAUG, BFA, is stepping in as acting artistic director for Workshop West Theatre while its founder, Gerry Potter, takes a year's sabbatical leave.

JAMES E. BURK, MEd, '66 BSc, is involved in distance education, computerized information, film production, and general audiovisual as an audiovisual communications specialist with Saskatchewan Agriculture.

RASTKO VUKOV, PhD, is a technical director at Alkaril Chemicals Ltd., Mississauga, Ontario.

'73 JOHN C. MCCUNE, BSc(Eng), was recently admitted to partnership by The Engineers Collaborative, Edmonton.

JOHN E. BATY, Dip(Ed), is the executive director of the Alberta Debate and Speech Association.

DEBRA SKELTON, BFA, is a member of the Mime Ensemble of Canada.

'74 JOHN F. WASMUTH, BSc(Ag), manager in charge of rural appraisals for Deloitte Has-

kins & Sells Associates, Edmonton, recently received the senior designation granted by the Appraisal Institute of Canada.

TERRANCE RICHARDSON, BA, has been studying for a graduate degree and working as a graduate assistant in the Old Testament department at Lutheran Theological Seminary, Saskatoon. In January he became pastor of Grace Lutheran Church, Saskatoon.

R. MORLEY CHRISTIE, BSc(Forest), assumed the position of northeast regional resource coordinator for Alberta Energy and Natural Resources on February 1.

IRENE TODEROVICH, BSc(HEC), works as a clinical dietitian in the division of geriatric medicine, Edmonton General Hospital.

RICHARD REESON, LLB, '69 BSc, was recently appointed secretary of CanadianOxy, a diversified Canadian resource company with its head office in Calgary.

GEORGE B. CUFF, BA(RecAdmin), was recently elected third vice-president of the Federation of Canadian Municipalities. He is serving in his third term as mayor of Spruce Grove, Alberta.

'75 TIM O'BRIEN, MBA, '72 BA, has been appointed manager — engine division of R. Angus Alberta Limited.

KEITH DOBSON, BA, earned MA and PhD degrees from the University of Western Ontario and is currently assistant professor of psychology at the University of British Columbia. He is the president for 1986 of the B.C. Psychological Association.

MEREDITH YATES, BEd, returned to Australia in 1977 after more than six years in Alberta. After holding a position in the Catholic education system for several years, she joined the community development division of the City of Salisbury, in metropolitan Adelaide ("South Australia — Grand Prix City"). There, she was the State's first children's development officer; recently she was promoted to the staff management position of neighborhood development officer, responsible for the family support scheme and three Neighborhood Houses.

'76 GLENN STOWKOWY, BSc(Eng), has joined Cheriton, a mechanical and electrical engineering firm based in Western Canada, as a senior project manager.

GORDON BAUMBACK, BPE, has been a firefighter with the Medicine Hat Fire Department for eight years.

TIM DUHOLKE, BComm, is a partner in a CA firm in Vancouver. He looks forward to seeing old friends this year at EXPO 86.

JAN MANNING (BROOK), BSc(HEC), has begun work at Vancouver International Airport as an air traffic controller after four years spent in the wilds of western Vancouver Island. VESNA VUKOV (TRIFUNOVIC), BLS, '71 MSc, is a reference librarian in the Engineering Library, University of Toronto.

MICHAEL MAGEE, BA, worked in Edmonton and Calgary after graduation until 1985 when he left his job as chief draftsman and senior technician for a civil engineering firm to return to his native city, Moncton, New Brunswick.

He's now in partnership with his brother providing technical support for Magee Associates, consulting geotechnical and materials engineers. ("P.S. — I love it!")

'77 ROBERT A. CARD, BComm, has been admitted to partnership with Reid & Cameron, Chartered Accountants and will be in charge of the firm's audit services.

STEPHEN ALVEY, BSc(Eng), recently transferred to Nashville, Tennessee with Northern Telecom Inc. as director, product management — "I'm starting to talk funny already."

GARY W. DAWSON, PhD, is an associate professor of clinical pharmacy at Idaho State University and director of pharmacy services for Medi-Save Pharmacies.

LESLIE McDAVID (DE ARMOND), BSc(HEC), is now married, the mother of three preschoolers, and living in Drayton Valley, Alberta. She occasionally teaches community courses and works part-time as a drapery consultant.

GAIL NIINIMAA (SUNDSTROM), BSc(Hec), is the textile conservator at the Glenbow Museum in Calgary. A member of the National Biathlon Team, she recently won the N.A. Championships 10 kilometre event and relay, and placed second in the 5 kilometre event at the Europa Cup in Oslo, Norway.

RANDY RITZ, BEd, and DOROTHY RITZ (SCHMIDT), '78 BEd, live in Edmonton, where Randy, who received his MFA in Idaho in 1985, is an instructor at Concordia College and director of the College's theatre productions. Dorothy is at home with their two children at present.

'78 GARRY EHRENTAUT, BSc(Forest), is now working with the reforestation and reclamation branch of the Alberta Forest Service.

DAWN KELLY-HORVEY, BSc(HEC), is the alumni relations officer at Brandon University in Manitoba.

JOHN R. WOOD, MBA, sales manager for Stearns Catalytic Ltd. of Calgary, was recently elected president of the Canadian Gas Processors Suppliers Association.

ROBERT MISKEY, BMus, played with the Edmonton Symphony Orchestra before going on to receive his MMus from Indiana University in 1983. He was recently appointed second violinist with the Winnipeg Symphony and concert master of the Manitoba Chamber Orchestra.

ERWIN RAWE, BComm, resides in Dallas, Texas, where he works as a tax senior for Rosewood Resources, having completed his MBA and CPA in Oregon. He extends the invitation: "If in the area, please look me up."

DARRYL THOMAS ELASCHUK, BSc, has recently established an Edmonton-based personnel consulting business, Darryl Thomas Consulting Associated Inc. "The firm is dedicated to assisting business of the future in better utilizing its most valuable resource — its human assets," he says.

'79 LAWRENCE BIRD, BSc(Eng), is cur-

rently employed by Atomic Energy of Canada at Chalk River Nuclear Laboratories in research reactor operations.

CURTIS H. FEEG, MSc, '77 BSc(Eng), and CORINNE FEEG (GATTINGER), '76 BSc(HEC), '81 BEd, live in Edmonton where Curtis works for MB Engineering, Structural Consultants. They have a son who was born in 1985.

KENDALL SCHAFER, BComm, and SUSAN SCHAFER (CRAWLEY), '78 Dip(Nu), have been transferred to Chicago with the Amoco Corporation. Kendall works in the firm's crude oil supply department for North America.

ANDERS ANDERSON, BSc, is serving as president of the Edmonton Chiropractic Society.

WARREN D. MITCHELL, BA, '82 BEd, is attending North American Baptist Seminary in Sioux Falls, South Dakota, working toward an MA in counselling.

LINDA BIDULKA (ROHATYNCHUK), BEd, has been married for three years and is teaching with the Calgary Catholic Board of Education. LINDA HANCHARD, BSc(Speech), has been living in Christchurch, New Zealand since 1979. Formerly charge speech therapist at Burwood Hospital, she is now studying interior design and working with her husband in his architectural practice.

ROBERT COPITHORNE, BSc(Forest), is employed by Eldene Moline, Chartered Accountant in La Ronge, Saskatchewan.

BRYAN CEBULIAK, MD, '77 BMS, has a practice with two other family physicians in an aluminum smelting area called Boyne Island, near Gladstone, Queensland, Australia. His wife, whom he met in Australia, has a part-time veterinary practice, and the couple are expecting their second child in July.

JANICE STRELOW (DEVER), BPE, lives in Calgary with her husband and son. She is employed by Nova, An Alberta Corporation as co-ordinator of their employee fitness centre.

'80 PRISCILLA KARIUKI, PhD, returned to her native Kenya and is employed by the department of sociology at the University of Nairobi. She writes: "I have many pleasant memories of your vast country and very good-hearted people. I miss the snow, the big red apples and the Rutherford Library!!"

PETER MILLER, BA, was one of the staff reporters who wrote a series on federal tax reform which earned the Michener Award for Meritorious and Disinterested Public Service in Journalism for the *Kingston Whig-Standard* newspaper.

DEBORAH BAIER, BEd, '75 BPE, of Edmonton is thinking of returning to school.

CAROLE AUBRY, BSc(Nu), recently began a master's program in educational studies at Concordia University, Montreal.

ROCKY SNIPPA, BSc(Eng), has transferred from Mobil Oil Canada to Mobil North Sea Ltd., where he works offshore as a drilling supervisor based in Aberdeen, Scotland.

STEPHEN CHOW, BSc(Eng), is a projects engineer for an Ottawa engineering firm and his wife is a senior computer analyst for CMHC. He recently returned from a business trip to China and met some U of A alumni in Hong

Kong on the way out. He reports that "everyone seems to do extremely well in Hong Kong and send their regards to their friends in Canada."

'81 D. WAYNE ROBERTSON, LLB, is practicing law with the firm of Lindsay Kenney in Vancouver and is the father of two preschoolers.

DOUG WALKER, MBA, '76 BSc(Forest), is now back in Thunder Bay after having spent two years at UNB Fredricton working on a PhD in forest management. He is an assistant professor in the Lakehead University School of Forestry.

DENIS GOUDET, BSc, has completed the first year of a PhD program in marine biology at the University of Puerto Rico. He is studying the behavior of coral reef fishes and loves the warm weather and great diving.

Alumni Travel

January

SOUTH PACIFIC

Air/Sea Cruise

March

CHINA

Hong Kong and the Mainland

June

RUSSIA

The Golden Ring of Russia

July

SCANDINAVIA

Fjords Adventure

October

THE FAR EAST

Bali, Borneo and Beyond

Your Alumni Association has some exciting travel destinations in store for 1987. Start planning your dream vacation now.

For information about any of these travel adventures, contact the Alumni Office.

432-3224

GLENNA JEFFERIES, BSc(Eng), has begun a new job with Canterra Energy in Calgary, working in the corporate economics department.

KATHERINE A. PRATT, BA, is technical training and development officer for Canada Customs, instructing customs inspectors at the Customs and Excise College in Rigaud, Quebec.

AUDREY SALKELD, BSc(OT), '75 Dip(OT), received the master of divinity degree from The Southern Baptist Theological Seminary in Louisville, Kentucky late last year.

PERRY HENDIN, BA, has been busy since his graduation from the University of Alberta, studying at Hebrew University in Jerusalem, at UBC, and at Touro College in New York. Now married, he's moving to Haifa, Israel to complete his medical studies at The Technion, Israel's institute of technology.

MICHELLE RABSKI, BEd, after having taught with the Edmonton Separate School Board, is now enjoying motherhood at home with her two-year-old son.

'82 DAVID WOODHOUSE, BSc(Eng), is a microsystems engineer with Edmonton Telephones, where he is involved in the development of hardware and software for microprocessor and minicomputer applications.

DAVID M. NELSON, BSc, is a biologist-technician with the Fur Institute of Canada at Vegreville, Alberta.

SUE BJORGE, BEd, is teaching grade three in Canmore, Alberta.

DEANA FAIR, BEd, teaches high school chemistry at Concordia College, Edmonton and is the women's dormitory counsellor. She plans to be married in June, at which time she will leave the dorm and resume full-time teaching.

'83 DAVID W. BROWN, PhD, has accepted a position as research chemist with Polysar Corporation in Sarnia, Ontario.

JAMES J. DALTON, MEd, recently became superintendent of schools for the Dalhousie, New Brunswick area. He is married and has

two children.

CATHERINE HOTKE, MD, '81 BMS, who is finishing her family practice residency in London, Ontario, is engaged to be married in June to a professor at Penn State University. They plan on spending a sabbatical year in Europe, California and Texas before settling in State College, Pennsylvania.

KATHLEEN MASCHIO, BEd, is teaching grades one and two in Medicine Hat, Alberta.

ANITA ROSSIGNOL, BSc(OT), is employed at G.F. Strong Rehabilitation Centre in Vancouver. "I'm thoroughly enjoying rehab and am in love with Vancouver," she writes.

TIMOTHY TABOT MAC OJONG, PhD, is an educational planner and evaluator in Cameroon, Central Africa. He holds the position, chief of service of university statistics and forecasts, department of scholarships and infrastructures, ministry of higher education and scientific research.

'84 CATHERINE WILSON, BEd, '82 BA, is teaching English at Ponoka Junior High School in central Alberta.

GREG BRANDENBARG, BA(RecAdmin), is beginning a three-year Mennonite Central Committee assignment at Dedougou, Burkina Faso, where he will work in community development.

MARK FORHAN, BSc(Ag), and SEANA FORHAN (McKNIGHT), BSc(Ag), were married in Calgary last year. They now live in Saskatoon, where Mark is completing a master's degree in plant breeding in conjunction with Agriculture Canada and the University of Saskatchewan.

CHRISTOPHER YAKYMYSHYN, BSc(Eng), is attending graduate school in electrical engineering at Cornell University, working toward a PhD degree.

BRIAN LOKHORST, BSc(Eng), and NANCY LOKHORST, BEd, live in Balmertown, Ontario. Brian is a ground control engineer for Campbell Red Lake Mines, and Nancy is tutoring and enjoying their children at home.

LUBOMYR LUCIUK, PhD, is a postdoctoral fellow in the department of geography at the University of Toronto. With Bohdan Kordan, a former research associate of the Canadian Institute of Ukrainian Studies at the U of A, he is the author of *A Delicate and Difficult Question: Documents in the Political History of Ukrainians in Canada*, published by The Limestone Press. Dr. Luciuk will be carrying out research on Afghani refugees and attending the International Sociological Association's conference in India this summer.

LISA SCHNELL, BA, completed an MA in English at the University of Western Ontario last year and is now working on a PhD at Princeton University.

CHARLENE BARVA, BA, is now employed at the Calgary General Hospital in the department of psychology as a psychometrist. Her future plans include further studies in clinical psychology — "eventually a doctorate."

SANTANU DAS, PhD, is an engineer with AT&T Bell Laboratories in Whippany, New Jersey.

KIMM M. HARTY, MSc, is working as a geologist for the Utah Geological Survey. She is

engaged in compiling maps depicting geologic hazards present in Utah (landslides, earthquakes, flooding, etc.).

BARB COVENTRY, BSc(Nu), is enjoying the challenge of working with Canada's Native people on two Indian reserves in northern Saskatchewan. She has been employed by the medical services branch of Health and Welfare Canada for the past one and one-half years.

BRUCE VEIDT, MSc, '81 BSc(Eng), spent a month in the Peruvian Andes after finishing his MSc thesis and is now working at the California Institute of Technology, where he is designing instrumentation for a new radio telescope.

ARNOLD E. NESS, BSc(Eng), works for IBM Canada as a systems engineer. He handles the engineering and scientific products for the Edmonton branch office and has recently been appointed to four accounts in Edmonton.

FLORENCE BELL, BEd, commenced work toward an MEd degree in 1984 and works as a registered nurse in Edmonton.

ELLY ONYSCHUK, BA, is enjoying a challenging career as a financial planner with Principal Consultants Ltd. in Edmonton.

SCOTT MICHAEL BURNS, BSc, is enrolled in an MBA program at Arizona State University.

'85 PETER MACLEAN, BEd, is employed at the Northern Alberta Institute of Technology as an instructor in the civil and architectural department. He plans to pursue an MEd degree at the U of A.

CYNTHIA CANTLIE, BComm, works for the department of national defence at its Ottawa headquarters as a financial administrator for the directorate of costing services.

SHIRLEY GAUDET (BRAGG), BSc(Nu), '58 Dip(Nu), works as occupational health infection control nurse at the Cross Cancer Institute in Edmonton.

MOHAN PALAT, MSc, works for AT&T Technologies Inc. in Chicago, Illinois as a computer software developer.

MELODIE WOODS (STEINMANN), BComm, has opened a clothing boutique, Melodie Lane Fashionwear, in Ponoka, Alberta.

SHARON ANN MILLER, BA, is a member of the Canadian Opera Company.

DAVID HARGREAVES, BA, is working toward an MA in urban and regional planning at the University of Waterloo.

PETER SCHUBERT, PhD, reported in March that he was working at four part-time jobs while he desperately looked for a permanent position. At that time, he reported 101 refusals.

AURELIO MAURO, LLB, '85 MBA, '81 BA, is now articling at the Edmonton law firm of Duncan and Craig.

RUSSELL G. MITCHELL, BA, is director — outreach for Christ International Reach Out Singers. The group is touring the U.S.A., Scandinavia, Western Canada, and the Middle East presenting the gospel in music.

KEVIN MAR, BFA, was recently honored by the Government of Canada with the Canada Award of Excellence for Industrial Design in the young Canadians category. <

We Would Like to Hear From You

New Trail welcomes your contributions. Let us know what you are doing now (see page 17) or send us memories of your days on campus or of someone associated with the University (see page 5).

We welcome submissions and suggestions as to articles we might do, and appreciate hearing about graduates whose work in the visual arts we might feature in "Imagery" (see page 10).

Kananginak presents "The Loon and the Fish"



World renowned Eskimo artist, Kananginak, photographed with his latest work at Cape Dorset, Northwest Territories, is one of seven famous Canadian artists whose work is now available in a special edition.

An exclusive arrangement between the West Baffin Eskimo Cooperative and the Mintmark Press enables you for the first time to have the work of a famous Eskimo artist at a popular price.

Each specially commissioned print measures 19 1/4" x 26" and is reproduced on fine art paper to the highest standards of quality and craftsmanship.

These works are not available in any other form. The Mintmark Edition is the only edition. Each print comes to you with Mintmark Press's guarantee: if not completely delighted with your acquisition, your money will be cheerfully refunded.

Beautiful graphics from the following artists are also available:



A Kenojuak



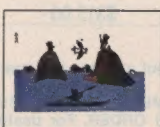
B Pudlo



C Kananginak



D Pitseolak



E Pitseolak



F Lucy



I Lucy

U This mark, which appears on each print along with the stonecutter's "chop" mark and the artist's own symbol, is the official emblem of the West Baffin Eskimo Cooperative, Cape Dorset, northwest Territories.



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